

2

11

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16

chain bonds :

9-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-16 13-14 14-15  
15-16

exact/norm bonds :

5-7 6-10 7-8 8-9 9-10 9-11 12-13 12-16 13-14 14-15 15-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

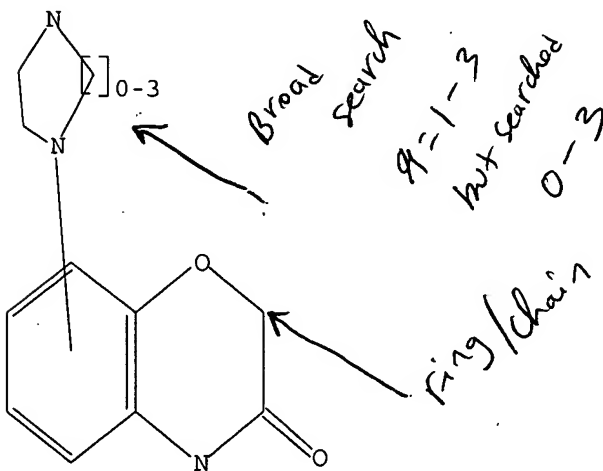
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 19:CLASS

L1 STRUCTURE UPLOADED

=&gt; d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=&gt; s 11

SAMPLE SEARCH INITIATED 16:10:34 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 313 TO ITERATE

100.0% PROCESSED 313 ITERATIONS

14 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5199 TO 7321

PROJECTED ANSWERS: 56 TO 504

&lt;03/01/2005&gt;

Habte

L2 14 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:10:42 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 6120 TO ITERATE

100.0% PROCESSED 6120 ITERATIONS

247 ANSWERS

SEARCH TIME: 00.00.01

L3 247 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.33

161.54

FILE 'CAPLUS' ENTERED AT 16:10:47 ON 01 MAR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 1 Mar 2005 VOL 142 ISS 10

FILE LAST UPDATED: 28 Feb 2005 (20050228/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

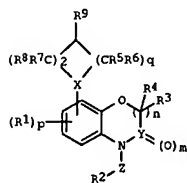
L4 35 L3

=> d ibib abs hitstr tot

Own work

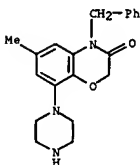
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN  
ACCESSION NUMBER: 2004:392319 CAPLUS  
DOCUMENT NUMBER: 140:406825  
TITLE: Preparation of substituted benzoxazinones as selective  
5-HT<sub>2</sub> antagonists for treating central nervous system  
diseases and gastrointestinal tract disorders  
Masq, Hansi; Sui, Meng; Zhao, Shu-hai  
INVENTOR(S): Roche Palo Alto Llc, USA  
PATENT ASSIGNEE(S): U.S. Pat. Appl. Publ., 40 pp.  
SOURCE: CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004092512	A1	20040513	US 2003-702302	20031106
WO 2004041792	A1	20040521	WO 2003-EP12278	20031104
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BV, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, EC, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, M2, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SJ, SY, TN, TN, TR, TT, TZ, UA, UG, UZ, VN, VU, ZA, ZM, ZW				
RW: BW, GH, KG, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TN, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, HR, NE, NG, NI, NO, TG				
PRIORITY APPL. INFO.: US 2002-42946P P 20021108				
OTHER SOURCE(S): HARPAT 140:060825				
GI				

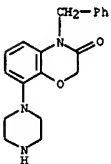


AB The invention provides compds. of the formula (I) or pharmaceutically acceptable salts or prodrgs thereof [Y = C, S; m = 1 when Y = C and m = 2 when Y = S; n = 1, 2; p = 0-3; q = 1-3; Z = (CRA)R or SO<sub>2</sub> (where R, Rb = H, alkyl); r = 0-2; X = CH<sub>2</sub>, N; R1 = halo, alkyl, haloalkyl, heteroalkyl,

L4	ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACOS ON STN (Continued) (Preparation): RACT (Reactant or reagent); USES (Uses) (prepn. of substituted benzoxazinones as selective 5-HT6 antagonists for treating central nervous system diseases and gastrointestinal tract disorders)
RN	688363-68-0 CAPLUS
CN	2H-1,4-BENZOXAZIN-3(4H)-ONE, 6-METHYL-4-(PHENYLMETHYL)-8-(1-PIPERAZINYL)- (9CI) (CA INDEX NAME)

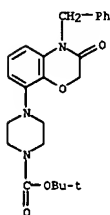


RN 688363-69-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)- (9CI)  
(CA INDEX NAME)



17 688363-00-09, 4-Benzyl-6-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-01-19, 4-Benzyl-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-02-29, 4-(2-Fluorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-03-39, 4-(2-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-04-49, 4-(3-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-05-59, 4-Benzyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-06-69, 4-Benzyl-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-07-79, 4-(2-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-08-89, 4-(4-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-09-99, 4-(4-Chlorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-10-29, 4-(4-Fluorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one

LA	ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued) alkoxy, cyano, S (O)SRc, CONCRd, SO2NRcRd, N(Rc)CORd, or CORC (where Rc, Rd = H, alkyl); s = 0-2; R2 = aryl, heteroaryl; R3, R4 = H, alkyl, hydroxyalkyl, or alkoxyalkyl; or R3 and R4 together with their shared carbon may form a ring of 3 to 6 members that optionally includes a N or O heteroatom; R5-R9 = H or alkyl, or one of R5 and R6 together with one of R7, R8 and R9 and the atoms between them may form a ring of 5 to 7 members]. These compds. exhibit selective affinity for 5-HT6 receptor and are used as selective 5-HT6 antagonists for treating (a) a central nervous system disease state which is selected from psychoses, schizophrenia, manic depressions, neurol. disorders, memory disorders, attention deficit disorder, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease and Huntington's disease and (b) a disorder of the gastrointestinal tract. Thus, amination of 4-benzyl-8-bromo-2,2-dimethyl-4H-benzo[1,4]oxazin-3-one with tert-butylcarbamoylaminopropylamine in the presence of Pd2(dba)3, BINAP, and sodium tert-butoxide in toluene at 95-100° followed by treatment with HCl/EtOH gave 4-benzyl-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one (II) hydrochloride. Free amine II and 4-(2-fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one inhibited the binding of the [3H]SDS to human 5-HT6 receptor with pKi of 9.13 and 9.04, resp. 688363-65-7 4-benzyl-3-oxo-4-(4-diisdro-ZH-benzo[1,4]oxazin-8-yl)piperazine-1-carboxylic acid tert-butyl ester R1: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (intermediate; preparation of substituted benzoxazinones as selective
5-HT6	antagonists for treating central nervous system diseases and gastrointestinal tract disorders)
RN	688363-65-7 CAPLUS
CN	1-Piperazinecarboxylic acid, 4-[3,4-dihydro-3-oxo-4-(phenylmethyl)-2H-1,4-benzoxazin-8-yl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)



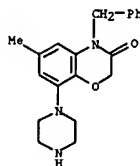
IT 688363-68-0P, 4-Benzyl-6-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one 688363-69-1P, 4-Benzyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

1 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STW (Continued)

hydrochloride **688363-11-39**, 4-(2-(Fluorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-12-49**, 4-(2-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-13-59**, 4-(4-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-14-59**, 6-Fluoro-4-(naphthalen-2-yl)methyl-1-(piperazin-3-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-15-79**, 4-(3-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-16-89**, 3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]benzonitrile hydrochloride **688363-17-99**, 4-(3-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-18-09**, 4-Benzyl-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-19-19**, (R)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-20-49**, 4-Benzyl-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-21-59**, 4-(4-Fluorobenzyl)-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-22-69**, (S)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-23-79**, 4-(4-Phenylethyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-24-89**, 4-Benzyl-6-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-25-99**, 4-Benzyl-8-(4-methylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-26-09**, 4-(1-Phenylethyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-27-19**, 4-(3-Methoxybenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-28-29**, 4-(3-Mitrobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-29-39**, 4-(3-Aminobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-30-69**, 4-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]benzonitrile hydrochloride **688363-31-79**, N-[3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]phenyl]methanesulfonamide hydrochloride **688363-32-99**, 4-(3-Fluorobenzyl)-6-(piperazin-1-yl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-33-99**, 4-(3-Fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-34-09**, 3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]phenylurea hydrochloride **688363-35-19**, 4-(3-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-36-29**, 4-Benzyl-6-(3-chlorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-37-39**, 4-(4-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-38-49**, 4-Benzyl-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-39-59**, 4-(4-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-40-69**, 4-(3-Fluorobenzyl)-6-(3-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-41-99**, 6-Fluoro-4-(2-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-42-09**, 6-Fluoro-4-(4-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-43-19**, 4-(3-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-44-29**, 4-Benzyl-8-(3,3-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride **688363-45-49**, **688363-67-99**.

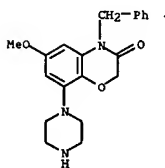
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 4-Benzyl-6-methyl-8-[(4-methylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-70-4P, 4-Benzyl-8-[(4-methylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-71-5P, 4-Benzyl-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-03-9P, 4-(2-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-84-0P, 4-(2-Fluorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-05-1P, (S)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-66-2P, 4-(3-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-87-3P, 4-Benzyl-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-88-4P, 4-(2-Fluorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-89-5P, 4-(2-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-90-8P, 4-(3-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
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 688363-92-0P, 4-(4-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-93-1P, 4-(4-Chlorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-94-2P, 4-(4-Fluorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-95-3P, 4-(2-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-96-4P, 4-(4-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-97-5P, 6-Fluoro-4-[(naphthalen-2-yl)methyl]-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-98-6P, 4-(3-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688363-99-7P, 3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl]methyl]benzotriazole  
 688364-00-3P, 4-(3-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-01-4P, (R)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-02-5P, 4-Benzyl-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-03-6P, 4-(4-Fluorobenzyl)-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-04-7P, 8-(Piperazin-1-yl)-4-[(pyridin-4-yl)methyl]-4H-benzo[1,4]oxazin-3-one  
 688364-05-8P, 4-(1-Phenylethyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-06-9P, 4-(3-Methoxybenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-07-0P, 4-(3-Nitrobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-08-1P, 4-(3-Aminobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-09-2P, N-[3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl]methyl]phenyl]methanesulfonamide  
 688364-10-5P, 4-(4-Fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-11-6P, 4-(3-Fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-12-7P, 3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl]methyl]phenyl]urea  
 688364-13-8P, 4-Benzyl-8-(3,5-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-14-9P, 4-(4-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-15-0P, 4-Benzyl-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-16-1P, 4-(4-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-17-2P, 6-Fluoro-4-(3-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-18-3P, 6-Fluoro-4-(2-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-19-4P, 6-Fluoro-4-(4-fluorobenzyl)-2,2-dimethyl-8-

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 (piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one 688364-20-7P, 4-(3-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-21-8P, 4-Benzyl-8-(3,3-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one  
 688364-22-9P, RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of substituted benzoxazinones as selective 5-HT<sub>6</sub> antagonists for treating central nervous system diseases and gastrointestinal tract disorders)  
 RN 688363-00-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



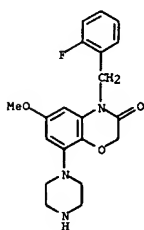
● HCl

RN 688363-01-1 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methoxy-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



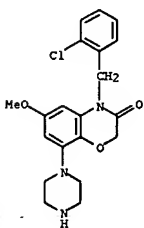
● HCl

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RN 688363-02-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

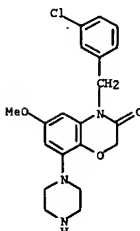
RN 688363-03-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

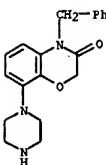
RN 688363-04-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



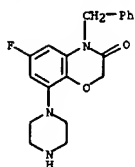
● HCl

RN 688363-05-5 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



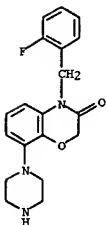
● HCl

RN 688363-06-6 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



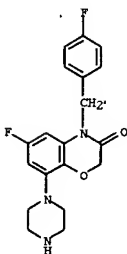
● HCl

RN 688363-07-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



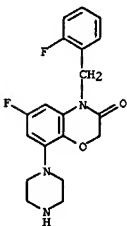
● HCl

RN 688363-08-8 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



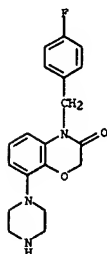
● HCl

RN 688363-11-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



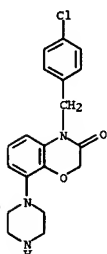
● HCl

RN 688363-12-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



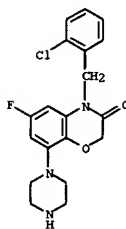
● HCl

RN 688363-09-9 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



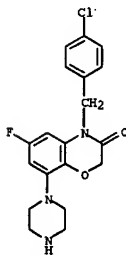
● HCl

RN 688363-10-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

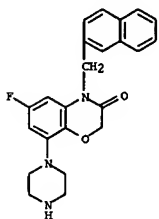
RN 688363-13-5 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

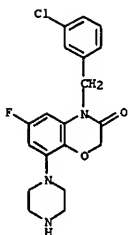
RN 688363-14-6 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-naphthalenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● HCl

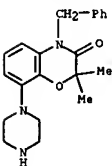
RN 688363-15-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 688363-16-8 CAPLUS  
 CN Benzotrile, 3-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

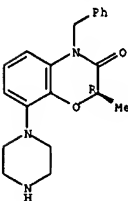
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● HCl

RN 688363-19-1 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride, (2R)- (9CI) (CA INDEX NAME)

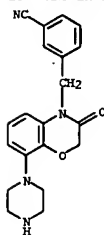
Absolute stereochemistry.



● HCl

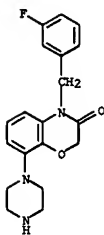
RN 688363-20-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-6-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● HCl

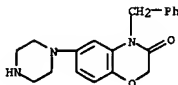
RN 688363-17-9 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

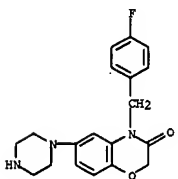
RN 688363-18-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● HCl

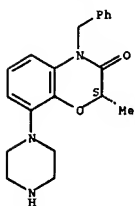
RN 688363-21-5 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-6-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

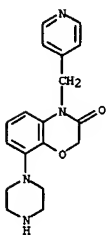
RN 688363-22-6 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



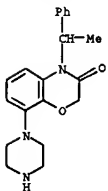
● HCl

RN 688363-23-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)-4-(4-pyridinylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



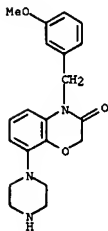
● HCl

RN 688363-24-8 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methyl-8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



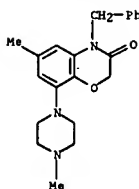
● HCl

RN 688363-27-1 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-methoxyphenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



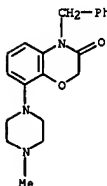
● HCl

RN 688363-28-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-nitrophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



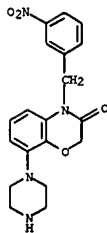
● HCl

RN 688363-25-9 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



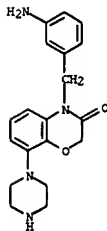
● HCl

RN 688363-26-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(1-phenylethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



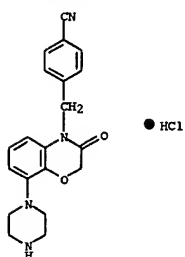
● HCl

RN 688363-29-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-aminophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

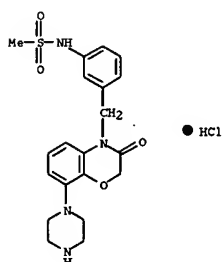


● HCl

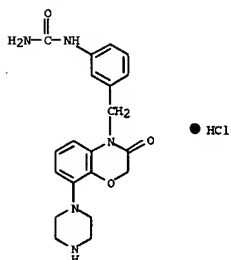
RN 688363-30-6 CAPLUS  
 CN Benzonitrile, 4-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



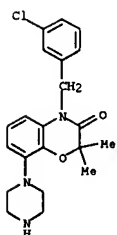
RN 688363-31-7 CAPLUS  
CN Methanesulfonamide, N-[3-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



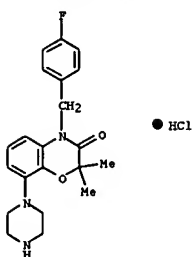
RN 688363-32-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



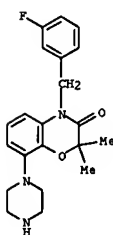
RN 688363-35-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



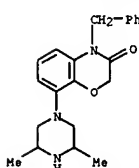
RN 688363-36-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,5-dimethyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



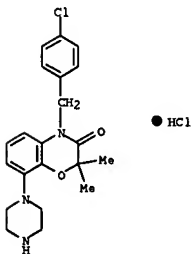
RN 688363-33-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



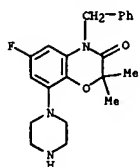
RN 688363-34-0 CAPLUS  
CN Urea, [3-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



RN 688363-37-3 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

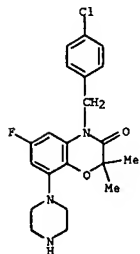


RN 688363-38-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



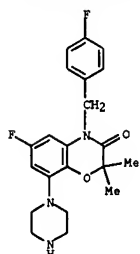
● HCl

RN 688363-39-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-((4-chlorophenyl)methyl)-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



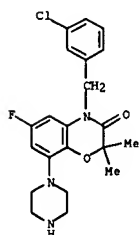
● HCl

RN 688363-40-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



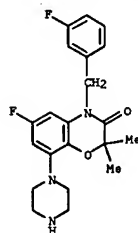
● HCl

RN 688363-43-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



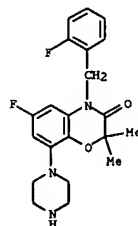
● HCl

RN 688363-44-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,3-dimethyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



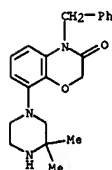
● HCl

RN 688363-41-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



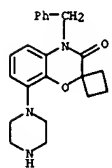
● HCl

RN 688363-42-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

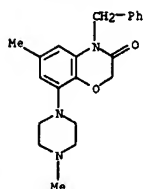
RN 688363-46-4 CAPLUS  
CN Spiro[2H-1,4-benzoxazine-2,1'-cyclobutan]-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



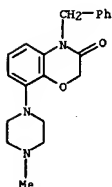
● HCl

RN 688363-67-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methyl-8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

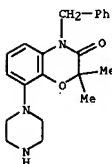
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



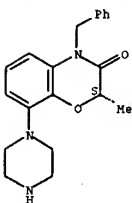
RN 688363-70-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



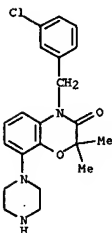
RN 688363-71-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



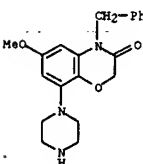
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 688363-86-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



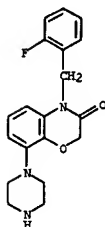
RN 688363-87-3 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methoxy-4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



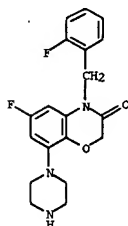
&lt;03/01/2005&gt;

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 688363-83-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 688363-84-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

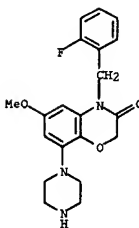


RN 688363-85-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, (2S)- (9CI) (CA INDEX NAME)

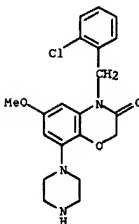
Absolute stereochemistry.

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 688363-88-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

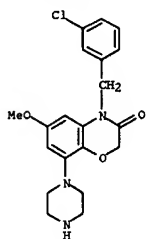


RN 688363-89-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

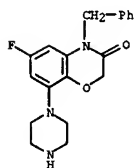


RN 688363-90-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

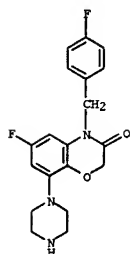
Habte



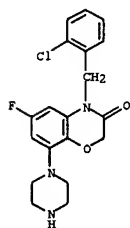
RN 688363-91-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-(phenylmethyl)-8-(1-piperazinyl)-  
(9CI) (CA INDEX NAME)



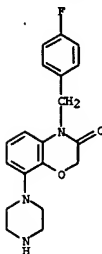
RN 688363-92-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)-  
(9CI) (CA INDEX NAME)



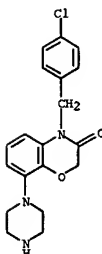
RN 688363-95-3 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



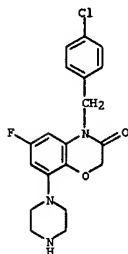
RN 688363-96-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



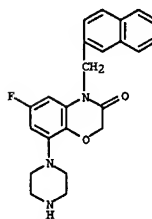
RN 688363-93-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-8-(1-piperazinyl)-  
(9CI) (CA INDEX NAME)



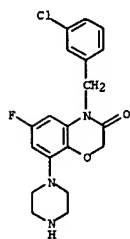
RN 688363-94-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



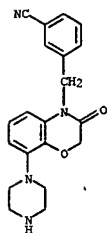
RN 688363-97-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-(2-naphthalenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 688363-98-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

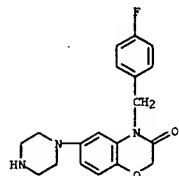


RN 688363-99-7 CAPLUS  
CN Benzonitrile, 3-[[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]- (9CI) (CA INDEX NAME)

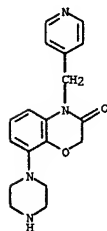


RN 688364-00-3 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

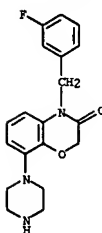
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 688364-04-7 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

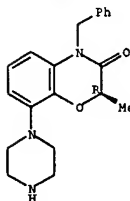


RN 688364-05-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(1-phenylethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

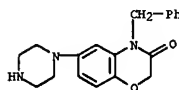


RN 688364-01-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)- (2R)- (9CI) (CA INDEX NAME)

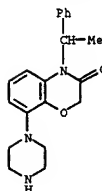
Absolute stereochemistry.



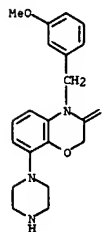
RN 688364-02-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 688364-03-6 CAPLUS

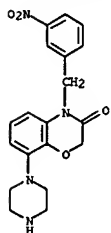


RN 688364-06-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-methoxyphenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

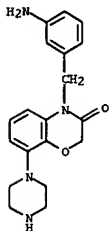


RN 688364-07-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-nitrophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

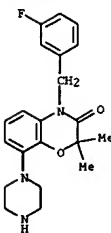


RN 688364-08-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-aminophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

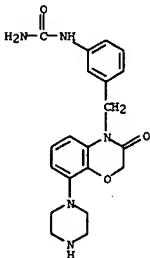


RN 688364-09-2 CAPLUS  
CN Methanesulfonamide, N-[[3-[[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

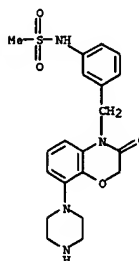


RN 688364-12-7 CAPLUS  
CN Urea, [3-[[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

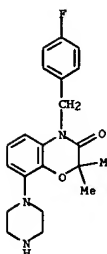


RN 688364-13-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,5-dimethyl-1-piperazinyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

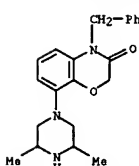


RN 688364-10-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

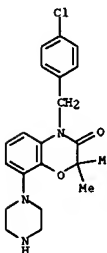


RN 688364-11-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

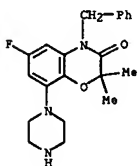
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



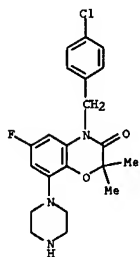
RN 688364-14-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



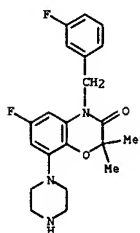
RN 688364-15-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RN 688364-16-1 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

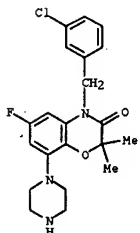


RN 688364-17-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

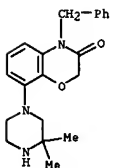


RN 688364-18-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

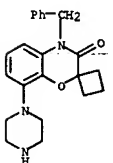
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



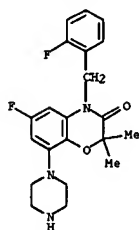
RN 688364-21-8 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,3-dimethyl-1-piperazinyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



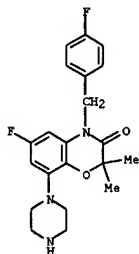
RN 688364-22-9 CAPLUS  
 CN Spiro[2H-1,4-benzoxazine-2,1'-cyclobutan]-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 688364-19-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

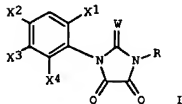


RN 688364-20-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

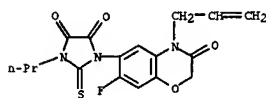
L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:142766 CAPLUS  
 DOCUMENT NUMBER: 138:153531  
 TITLE: Preparation of imidazolinetrione derivatives as herbicides  
 INVENTOR(S): Li, Bin; Xu, Jidong; Mang, Ying; Zhang, Zongjian  
 PATENT ASSIGNEE(S): Shenyang Chemical Institute, Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.  
 CODEN: CNXKEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1325849	A	20011212	CN 2000-110477	20000530
CN 1118466	B	20030820		
PRIORITY APPLN. INFO.: CN 2000-110477 20000530				
OTHER SOURCE(S): MARPAT 138:153531				
GI				

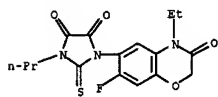


AB Title compds. I (R = H, alkyl; W = O, S; X1, X4 = H, halo; X2 = halo, cyano, nitro, etc.; X3 = alkyl, alkoxy, alkenyloxy, alkynyloxy, etc.), useful as herbicides, are prepared. I (R = MeOCH2, W = O, X1 = F, X2 = Cl, X3 = cyclopentyl, X4 = H) was prepared in several steps from 2-fluoro-4-chloro-5-cyclopentylmethoxyaniline and showed herbicidal activity against Polygonum lapathifolium at 1200 g/ha.  
 IT 374718-07-7P 374718-08-8P 374718-09-9P  
 374718-10-2P 374718-11-3P 374718-13-5P  
 374718-14-6P 374718-16-8P 494869-07-7P  
 494869-11-3P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses).  
 (preparation of imidazolinetrione deriva. as herbicides)  
 RN 374718-07-7 CAPLUS  
 CN Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]methyl- (9CI) (CA INDEX NAME)

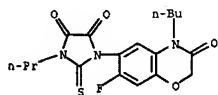
L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



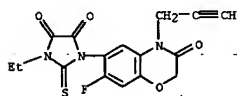
RN 374718-13-5 CAPLUS  
 CN 4,5-Imidazolidinedione, 1-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thio- (9CI) (CA INDEX NAME)



RN 374718-14-6 CAPLUS  
 CN 4,5-Imidazolidinedione, 1-(4-butyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thio- (9CI) (CA INDEX NAME)

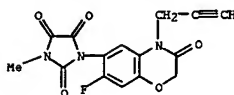


RN 374718-16-8 CAPLUS  
 CN 4,5-Imidazolidinedione, 1-ethyl-3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-2-thio- (9CI) (CA INDEX NAME)

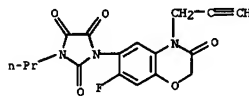


RN 494869-07-7 CAPLUS  
 CN 4,5-Imidazolidinedione, 1-(7-fluoro-3,4-dihydro-3-oxo-4-propyl-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thio- (9CI) (CA INDEX NAME)

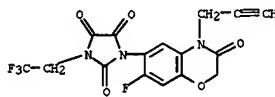
L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



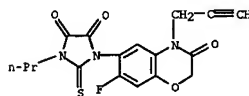
RN 374718-08-8 CAPLUS  
 CN Imidazolidinedione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]propyl- (9CI) (CA INDEX NAME)



RN 374718-09-9 CAPLUS  
 CN Imidazolidinedione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl](2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

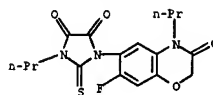


RN 374718-10-2 CAPLUS  
 CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thio- (9CI) (CA INDEX NAME)

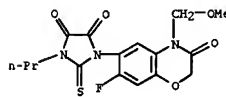


RN 374718-11-3 CAPLUS  
 CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thio- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

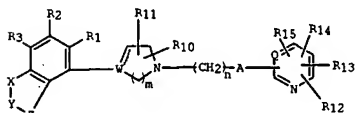


RN 494869-11-3 CAPLUS  
 CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-4-(methoxymethyl)-3-oxo-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thio- (9CI) (CA INDEX NAME)



L4	ANSWER 3 OF 35	CAPLUS	COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:		2003:22870	CAPLUS
DOCUMENT NUMBER:		138:89820	
TITLE:		Preparation of heteroaryl derivatives as 5-HT1A antagonists, potent serotonin reuptake inhibitors, and which show affinity for the dopamine D4 receptor	
INVENTOR(S):		Rottlaender, Marco; Holtzen, Ejner Knud; Mikkelsen, Ivan; Ruhland, Thomas; Andersen, Kim; Krog-Jensen, Christian	
PATENT ASSIGNEE(S):		H. Lundbeck A/S, Den.	
SOURCE:		PCT Int. Appl., 40 pp.	
		CODEN: PIXXD2	
DOCUMENT TYPE:		Patent	
LANGUAGE:		English	
FAMILY ACC. NUM. COUNT:		1	
PATENT INFORMATION:			

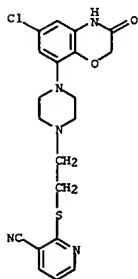
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003002556	A1	20030109	WO 2002-DK435	20020627
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, LU, MA, MD, MG, MK, MN, MW, MX, ME, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SV, SL, TJ, TH, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KS RW: GH, GM, KE, LG, MW, HZ, SD, SL, SZ, TZ, UG, ZH, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SV, BF, BO, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1399438	A1	20040103	EP 2002-74284	20020627
R: AT, BE, CH, DE, DK, ES, GB, GR, HU, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002010401	A	20040817	BR 2002-10401	20020627
JP 2004535449	T2	20041125	JP 2003-508937	20020627
US 2004248883	A1	20041209	US 2004-482764	20040706
PRIORITY APPLN. INFO.:			DK 2001-1036	A 20010629
			WO 2002-DK435	W 20020627
OTHER SOURCE(S):				
MARPAT 138:89920				
GI				



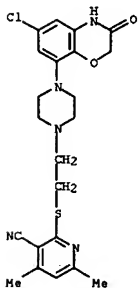
L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB	<p>Heteroaryl derivs. (I) wherein A = O, S; n = 2, 3, 4, 5, 6, 7, 8, 9, 10; m = 2, 3; W, Q, independently = N, C, CH<sub>3</sub> X = O, amino, S, CRAR<sub>5</sub>; Y = CRAR<sub>6</sub>, CRAR<sub>7</sub>-CRAR<sub>8</sub>, CRAR<sub>6</sub>CR<sub>7</sub>, COCRAR<sub>6</sub> or X and Y together form a group C(R)<sub>2</sub>CR<sub>5</sub>, C(R)<sub>2</sub>CR<sub>5</sub>-CRAR<sub>7</sub>; Z = O, S; R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, independently = H, (C1-C6)alkenyl, (C2-C6)alkenyl, (C2-C6)alkynyl, (C3-C8)cycloalkyl-(C1-C6)alkyl, aryl-(C1-C6)alkyl, acyl, etc.; R10, R11, independently = H, (C1-C6)alkyl, or may together form a bridge consisting of two or three methylene groups; R12 = H, hal, cyano, nitro, hydroxy, (C1-C6)alkyl, (C1-C6)alkoxy, etc.] were prepared. For example, 4,6-dimethyl-2-(2-oxoethylsulfonyl)nicotinonitrile (synthetic preparation given) is reacted with 4-(2,3-dihydrobenzo[1,4]dioxin-5-yl)piperazine to give 2-[2-[4-(2,3-dihydrobenzo[1,4]dioxin-5-yl)piperazin-1-yl]ethylsulfonyl]-6-methylnicotinonitrile (II). The prepared compds. are potent serotonin reuptake inhibitors and exhibit high affinity for 5-HT1A receptors and 5-HT2 receptors and, thus, may be used for the treatment of affective disorders such as general anxiety disorder, panic disorder, obsessive compulsive disorder, depression, social phobia and eating disorders, and neurole. disorders such as psychosis. For example, compound II showed good inhibition of 3H-5-HT uptake into rat brain synaptosomes (IC50 &lt; 20 nM).</p> <p>480431-12-1P 480431-16-5P 480431-16-5P  480431-17-6P 480431-19-5P 480431-20-1P  480431-22-3P 480431-24-5P</p> <p>RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)</p> <p>(preparation of benzodioxinyl piperazinyl heteroaryl derivs. as 5-HT1A antagonists, potent serotonin reuptake inhibitors, and which show affinity for dopamine D4 receptor)</p>
IT	
RN	<p>480431-12-1 CAPUS</p>
CN	<p>3-Pyridinecarboxitrile, 2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]- (9CI) (CA INDEX NAME)</p>

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

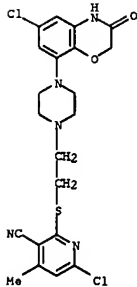


RN 484031-14-3 CAPLUS  
CN 3-Pyridinecarbonitrile, 2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-4,6-dimethyl- (9CI) (CA INDEX NAME)

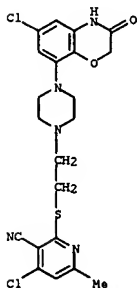


RN 484031-16-5 CAPLUS  
CN 3-Pyridinecarbonitrile, 6-chloro-2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

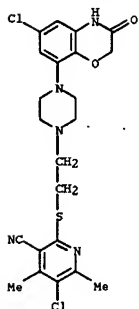


RN 484031-17-6 CAPLUS  
CN 3-Pyridinecarbonitrile, 4-chloro-2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-6-methyl- (9CI) (CA INDEX NAME)

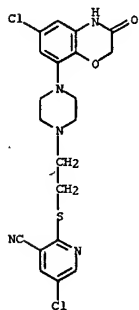


RN 484031-19-8 CAPLUS  
CN 3-Pyridinecarbonitrile, 5-chloro-2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-4,6-dimethyl- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 484031-20-1 CAPLUS  
CN 3-Pyridinecarboxitrile, 5-chloro-2-[[2-[[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]- (9CI) (CA INDEX NAME)



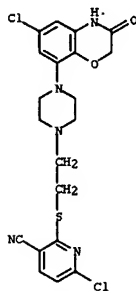
RN 484031-22-3 CAPLUS

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

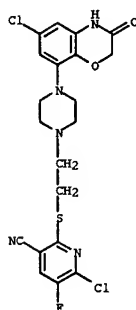
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN 3-Pyridinecarboxitrile, 6-chloro-2-[[2-[[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]- (9CI) (CA INDEX NAME)



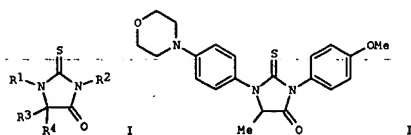
RN 484031-24-5 CAPLUS  
CN 3-Pyridinecarboxitrile, 6-chloro-2-[[2-[[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-5-fluoro- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:793608 CAPLUS  
DOCUMENT NUMBER: 137:310917  
TITLE: Aromatic-substituted thiohydantoin, their preparation, and their use for treating diabetes, dyslipidemia, and obesity  
INVENTOR(S): Boubia, Bensiezza; Chaput, Evelyne; Ou, Khan; Ratel, Philippe  
PATENT ASSIGNEE(S): Laboratoires Fournier SA, Fr.  
SOURCE: PCT Int. Appl., 111 pp.  
CODEN: F1XXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

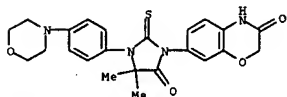
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081453	A1	20021017	WO 2002-FR1167	20020404
WO 2002081453	C1	20021114		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FL, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2823209	A1	20021011	FR 2001-4552	20010404
FR 2823209	B1	20031212		
CA 2444024	AA	20021017	CA 2002-2444024	20020404
EP 1373219	A1	20040102	EP 2002-730333	20020404
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, HK, CY, AL, TR				
EE 200300485	A	20040216	EE 2003-485	20020404
BR 2002007910	A	20040803	BR 2002-7910	20020404
JP 2004525175	T2	20040819	JP 2002-579441	20020404
US 2004116417	A1	20040617	US 2003-473032	20030926
NO 2003004430	A	20031006	NO 2003-4430	20031003
PRIORITY APPLN. INFO.: FR 2001-4552 A 20010404				
OTHER SOURCE(S): MARPAT 137:310917				
G1				



AB The invention concerns compds. derived from 2-thiohydantoin, selected among compds. I [R1 = (un)substituted aromatic nucleus [substituents = halo, alkoxy, alkyl, NO2, CF3, OCF3, OCH2O, or (un)substituted

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- L4 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
(homo) (thio)morpholine, (homo)piperidine, (homo)piperazine, etc.; R2 = H, alkyl or cycloalkyl [optionally interrupted by O atom(s)], haloalkyl, alkenyl, alkynyl, hydroxyalkyl, aminoalkyl, cyanoalkyl, (un)substituted arom. nucleus; R3 = H, alkyl; R4 = H, alkyl, OH or R3R4 = CH2; provided that at least one of R1 and R2 is an arom. nucleus bearing at least one (un)substituted (homo) (thio)morpholine, (homo)piperidine, (homo)piperazine, etc.] and their addn. salts with acids, in particular their pharmaceutically acceptable salts. The invention also concerns methods for prep. I, pharmaceutical compns. contg. them, and their use as pharmacol. active substances, in particular for treating diabetes, diseases mediated by hyperglycemia, hypertriglyceridemia, dyslipidemia, or obesity. A total of 380 invention compds. and approx. 80 intermediates were prep. and characterized. When tested orally in mice at doses below 200 mg/kg, I reduced glucose levels by up to -73%, and reduced serum triglycerides by up to -56%, with favorable changes in lipid parameters (no specific data). For instance, 4-(4-morpholinyl)aniline reacted with Et 2-bromopropionate and NaOAc in EtOH to give 69% N-[4-(4-morpholinyl)phenyl]-DL-alanine Et ester. Cyclocondensation of this amino ester with 4-(isothiocyanato)aniline in refluxing toluene in the presence of AcOH gave 82.5% title compd. II.
- IT 471937-62-9P, 1-(4-(Morpholin-4-yl)phenyl)-3-(3-oxo-2,3-dihydro-4H-1,4-benzoxazin-7-yl)-5,5-dimethyl-2-thioxo-4-imidazolidinone  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(Drug candidate; preparation of aromatic-substituted thiohydantoin for treatment of diabetes, dyslipidemia, and obesity)
- RN 471937-62-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 7-[(4,4-dimethyl-3-[(4-(4-morpholinyl)phenyl]-5-oxo-2-thioxo-1-imidazolidinyl) - (9CI) (CA INDEX NAME)

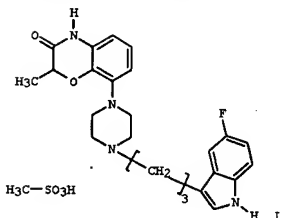


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

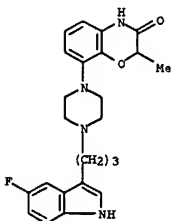
L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2002:658119 CAPLUS  
DOCUMENT NUMBER: 137:201320  
TITLE: Preparation of a piperazinyl-2-methyl-2H-1,4-benzoxazin-3(4H)-one methanesulfonate with high affinity for the dopamine D2 receptor and the serotonin-reuptake site  
INVENTOR(S): Bakker, Cornelis  
PATENT ASSIGNEE(S): Solvay Pharmaceuticals B.V., Neth.  
SOURCE: PCT Int. Appl., 9 pp.  
CODEN: PIKXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066473	A1	20020829	WO 2002-EP1795	20020219
WO 2002066473	C1	20040129		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, UK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2430707	AA	20020829	CA 2002-2430707	20020219
BR 2002006162	A	20031028	BR 2002-6162	20020219
EP 1366044	A1	20031203	EP 2002-719880	20020219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004518747	T2	20040624	JP 2002-565987	20020219
US 2004024207	A1	20040205	US 2003-432225	20030522
NO 2003002914	A	20030624	NO 2003-2214	20030624
PRIORITY AFFIN. INFO.: EP 2001-200610 A 20010221				
OTHER SOURCE(S): CASREACT 137:201320				
GI WO 2002-EP1795 W 20020219				

L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



- AB The title compound (I), which is useful in the treatment of CNS disorders, is prepared by the salification of the I free base with methanesulfonic acid.
- IT 452305-55-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(in the preparation of a piperazinyl-2-methyl-2H-1,4-benzoxazin-3(4H)-one methanesulfonate with high affinity for the dopamine D2 receptor and the serotonin-reuptake site)
- RN 452305-55-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[(4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl- (9CI) (CA INDEX NAME)

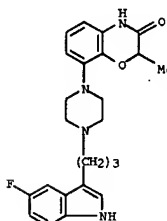


- IT 452305-56-5P  
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of a piperazinyl-2-methyl-2H-1,4-benzoxazin-3(4H)-one methanesulfonate with high affinity for the dopamine D2 receptor and the serotonin-reuptake site)
- RN 452305-56-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[(4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, monomethanesulfonate (9CI) (CA INDEX NAME)

<03/01/2005>

L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CM 1  
CRN 452305-55-4  
CMF C24 H27 F N4 O2



CM 2  
CRN 75-75-2  
CMF C H4 O3 S



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:332196 CAPLUS

DOCUMENT NUMBER: 136:355241

TITLE: Preparation of benzoxazinones as antidepressants and anxiolytics

INVENTOR(S): Johnson, Christopher Norbert; Rami, Harshad Kantilal; Stemp, Geoffrey; Thewlis, Kevin; Thompson, Mervyn;

Vong, Antonio Kuok Keong

PATENT ASSIGNEE(S): Smithkline Beecham P.L.C., UK

SOURCE: PCT Int. Appl., 97 pp.

CODEN: PIXX02

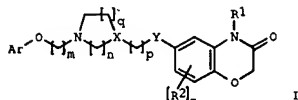
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

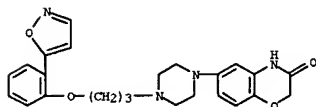
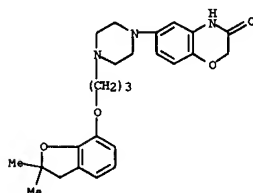
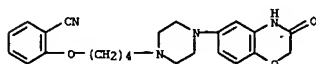
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002034754	A2	20020502	WO 2001-EP12344	20011022
WO 2002034754	A3	20020711		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CP, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2426706	AA	20020502	CA 2001-2426706	20011022
AU 2002024791	A5	20020506	AU 2002-24791	20011022
EP 1330460	A2	20030730	EP 2001-988720	20011022
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014881	A	20030930	BR 2001-14881	20011022
JP 2004516250	T2	20040603	JP 2002-537744	20011022
ZA 2003003118	A	20040428	ZA 2003-3118	20030423
NO 2003001838	A	20030624	NO 2003-1838	20030424
US 2004063704	A1	20040401	US 2003-415119	20031016
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S): MARPAT 136:355241				
GI				



L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-[2-(5-isoxazolyl)phenoxy]propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

RN 420785-64-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-[(2,3-dihydro-2,2-dimethyl-7-benzofuran-1-yl)oxy]propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)RN 420785-67-7 CAPLUS  
CN Benzonitrile, 2-[4-[3-(4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-1-piperazinyl]butoxy]- (9CI) (CA INDEX NAME)RN 420785-68-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[4-[2-(5-isoxazolyl)phenoxy]butyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

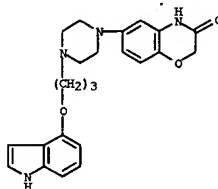
AB The title compds. [1: Ar = (un)substituted Ph, naphthyl, a monocyclic or a bicyclic heteroarom. group; when Ar = Ph or a monocyclic heteroarom. group, substituents positioned ortho to one another may be linked to form a 5-6 membered ring; R1 = H, alkyl, alkenyl, alkynyl, arylalkyl; R2 = halo, alkyl, CN, CF3, alkanoyl, alkoxy, OH; X = CH, N; Y = a single bond, O, CO; p = 0-2; r = 0-3; n = 2-4; m, q = 1-2], useful as medicaments for various CNS disorders, including depression and/or anxiety, were prepared Thus, reacting 6-(4-piperidinyl)oxy-4H-benzo[1,4]oxazin-3-one.HCl with 4-1H-indolylacetaldehyde in the presence of NaBH(OAc)3 in 1,2-dichloroethane afforded 63% I [Ar = 4-indolyl; R1 = H; X = CH; Y = O; p = 0; q = 1; n, m = 2; r = 0]. All compds. I tested according to the radioligand binding assay were found to have pKi values > 6.0 at 5-HT1A receptors.

IT 420785-61-1P 420785-62-2P 420785-63-3P  
420785-64-4P 420785-67-7P 420785-68-8P  
420785-69-9P

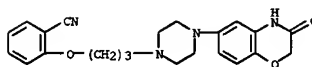
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzoxazinones as antidepressants and anxiolytics)

RN 420785-61-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-(1H-indol-4-yloxy)propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

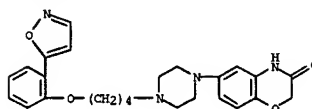


RN 420785-62-2 CAPLUS  
CN Benzonitrile, 2-[3-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-1-piperazinyl]propoxy]- (9CI) (CA INDEX NAME)

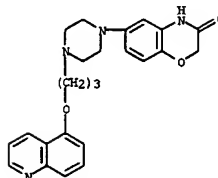


RN 420785-63-3 CAPLUS

L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



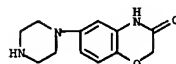
RN 420785-69-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-(5-quinolinyl)oxy]propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



IT 420785-50-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzoxazinones as antidepressants and anxiolytics)

RN 420786-50-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(1-piperazinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:864749 CAPLUS

DOCUMENT NUMBER: 135:371747

TITLE: Preparation of herbicidal imidazolidinetrione and thioxoimidazolidinediones

INVENTOR(S): Li, Bin; Man, Ying; Zhang, Zongjian; Hsu, Adam

PATENT ASSIGNEE(S): Chi-tung

SOURCE: Dow Agrosciences LLC, USA

EU: Pat. Appl., 17 pp.

DOCUMENT TYPE: CODEN: EPXMDW

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: English

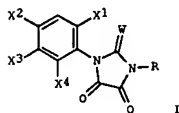
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1157991	A2	20011128	EP 2001-303219	20010405
EP 1157991	A3	20011205		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6444615	B1	20020903	US 2000-551345	20000418
BR 2001001495	A	20020108	BR 2001-1495	20010417
JP 2001354660	A2	20011225	JP 2001-119413	20010418
			US 2000-551345	A 20000418

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

GI



AB 1-Substituted-phenyl-3-substituted-2-thioxo-4,5-imidazolidinediones and 2,4,5-imidazolidinetriones I [R = H, alkyl, cycloalkyl, alkynyl, etc.; X1 = H, halo; X2 = halo, cyano, NO2; X3 = haloalkyl, alkoxy, alkylcarbonyl, etc.; X4 = H, halo; W = O, X], which have activity as herbicides, were prepared. E.g., herbicidal activity of I with four monocot weeds, four dicot weeds and one sedge weed were tested. E.g., 1-(2-fluoro-4-chloro-5-methoxycarbonylphenyl)-3-isopropyl-2,4,5-imidazolidinetrione was prepared

IT 374718-07-7P 374718-08-8P 374718-09-9P  
374718-10-2P 374718-11-3P 374718-13-5P  
374718-14-6P 374718-15-7P 374718-16-8P

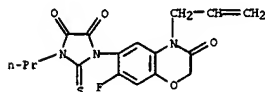
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of herbicidal imidazolidinetrione and thioxoimidazolidinediones)

RN 374718-07-7 CAPLUS

L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

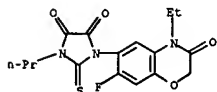
RN 374718-11-3 CAPLUS

CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



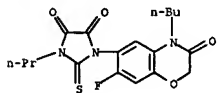
RN 374718-13-5 CAPLUS

CN 4,5-Imidazolidinedione, 1-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



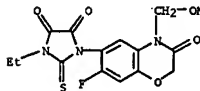
RN 374718-14-6 CAPLUS

CN 4,5-Imidazolidinedione, 1-(4-butyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



RN 374718-15-7 CAPLUS

CN 4,5-Imidazolidinedione, 1-ethyl-3-[7-fluoro-3,4-dihydro-4-(methoxymethyl)-3-oxo-2H-1,4-benzoxazin-6-yl]-2-thioxo- (9CI) (CA INDEX NAME)



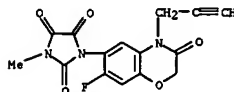
RN 374718-16-8 CAPLUS

CN 4,5-Imidazolidinedione, 1-ethyl-3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-2-thioxo- (9CI) (CA INDEX NAME)

<03/01/2005>

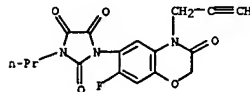
L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN Imidazolidinetrione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]methyl- (9CI) (CA INDEX NAME)



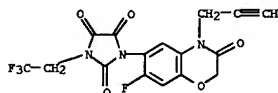
RN 374718-08-8 CAPLUS

CN Imidazolidinetrione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]propyl- (9CI) (CA INDEX NAME)



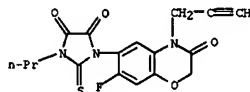
RN 374718-09-9 CAPLUS

CN Imidazolidinetrione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl](2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

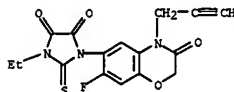


RN 374718-10-2 CAPLUS

CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)

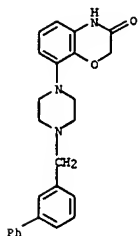


L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



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L4 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:629000 CAPLUS  
 DOCUMENT NUMBER: 135:357896  
 TITLE: New 1-aryl-4-(biarylmethylene)piperazines as potential atypical antipsychotics sharing dopamine D2-receptor and serotonin 5-HT1A-receptor affinities  
 AUTHOR(S): Feenstra, R. W.; de Moes, J.; Hofma, J. J.; Kling, H.; Kuipers, W.; Long, S. K.; Tulp, M. T. M.; van der Heyden, J. A. M.; Kruse, C. G.  
 CORPORATE SOURCE: Research Laboratories, Solvay Pharmaceuticals, Weesp, 1380 DA, Neth.  
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2001), 11(17), 2345-2349  
 CODEN: BMCLB8; ISSN: 0960-894X  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:357896  
 AB 1-Aryl-4-(biarylmethylene)piperazines were prepared and their affinity for D2 and 5-HT1A receptors was determined. A selection of these compounds was evaluated in vivo, resulting in the identification of a drug candidate which is being clinically evaluated as a potential atypical antipsychotic with reduced extrapyramidal side effects.  
 IT 197954-64-6P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of 1-aryl-4-(biarylmethylene)piperazines as potential atypical antipsychotics sharing dopamine D2-receptor and serotonin 5-HT1A-receptor affinities)  
 RN 197954-64-6 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-([1,1'-biphenyl]-3-ylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



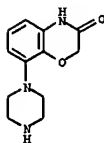
IT 105685-36-7

L4 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:152642 CAPLUS  
 DOCUMENT NUMBER: 134:193447  
 TITLE: New phenylpiperazines  
 INVENTOR(S): Van Hes, Roelof; Van Der Heijden, Johannes A. M.; Kruse, Cornelis G.; Tipker, Jacobus; Tulp, Martinus T. M.; Visser, Gerben M.; Van Vliet, Bernard J.  
 PATENT ASSIGNEE(S): Solvay Pharmaceuticals B.V., Neth.  
 SOURCE: PCT Int. Appl., 26 pp.  
 CODEN: PIXX02  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001014330	A2	20010301	WO 2000-EP8190	20000822
WO 2001014330	A3	20010802		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2379021	AA	20010301	CA 2000-2379021	20000822
BR 2000013498	A	20020514	BR 2000-13498	20000822
EP 1212320	A2	20020612	EP 2000-962355	20000822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200460	T2	20020621	TR 2002-200200460	20000822
JP 2003507454	T2	20030225	JP 2001-518420	20000822
NZ 517900	A	20030829	NZ 2000-517900	20000822
AU 772189	B2	20040408	AU 2000-74118	20000822
AU 2000074118	A5	20010319		
RU 2246494	C2	20050220	RU 2002-107318	20000822
NO 2002000810	A	20020219	NO 2002-810	20020219
ZA 2002001829	A	20030605	ZA 2002-1829	20020305
PRIORITY APPL. INFO.:				
EP 1999-202710 A 19990823				
NL 1999-1012888 A 19990823				
WO 2000-EP8190 W 20000822				

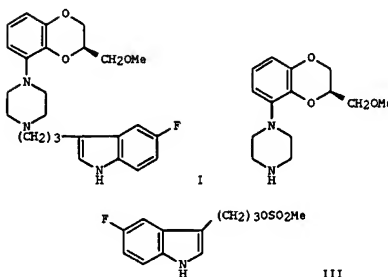
GI

L4 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RL: RCT (Reactant); RAC (Reactant or reagent)  
 (prepn. of 1-aryl-4-(biarylmethylene)piperazines as potential atypical antipsychotics sharing dopamine D2-receptor and serotonin 5-HT1A-receptor affinities)  
 RN 105685-36-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



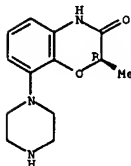
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



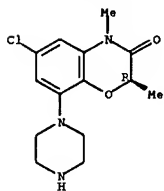
AB Phenylpiperazines such as I were prepared. Thus, I was prepared in 57% yield by refluxing 13.6 mmol II with 15.1 mmol 5-fluoroindole derivative III, 2 mL Et3N, and a catalytic amount of XI in 100 mL MeCN for 18 h.  
 IT 327026-92-6 327026-95-9 327027-00-9  
 RL: RCT (Reactant); RAC (Reactant or reagent)  
 (arylpiperazine preparation)  
 RN 327026-92-6 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-8-(1-piperazinyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

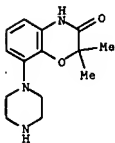


RN 327026-95-9 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-chloro-2,4-dimethyl-8-(1-piperazinyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

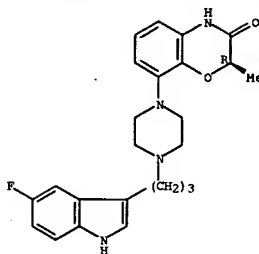


RN 327027-00-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



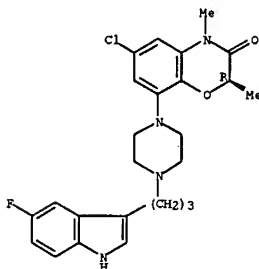
IT 327026-93-7P 327026-96-0P 327027-01-0P  
327027-05-4P 327027-06-5P 327027-07-6P  
327027-08-7P 327027-09-8P 327027-17-8P  
327027-18-9P 327027-19-0P  
RL: SPN (Synthetic preparation), PREP (Preparation)  
(aryl)piperazine preparation)  
RN 327026-93-7 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

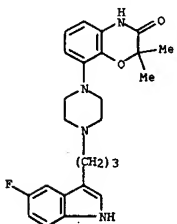


RN 327026-96-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-chloro-8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2,4-dimethyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

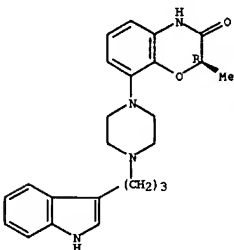


RN 327027-01-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2,2-dimethyl-, (9CI) (CA INDEX NAME)



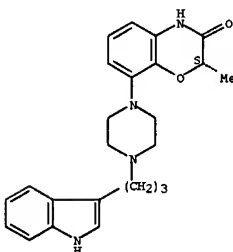
RN 327027-05-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



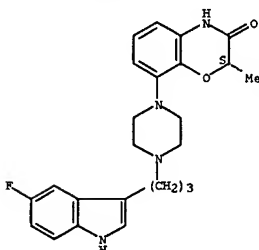
RN 327027-06-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



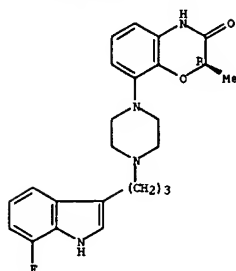
RN 327027-07-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



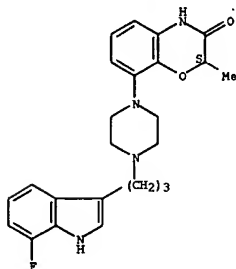
RN 327027-08-7 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(7-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



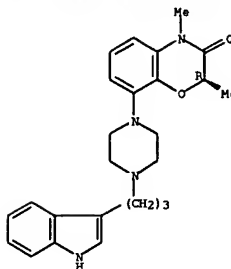
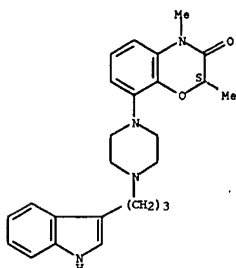
RN 327027-09-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(7-fluoro-1H-indol-3-yl)propyl}-1-piperazinyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



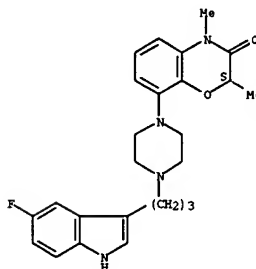
RN 327027-17-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(1H-indol-3-yl)propyl}-1-piperazinyl]-2,4-dimethyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 327027-18-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(5-fluoro-1H-indol-3-yl)propyl}-1-piperazinyl]-2,4-dimethyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

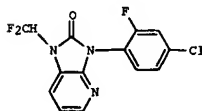


RN 327027-19-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(1H-indol-3-yl)propyl}-1-piperazinyl]-2,4-dimethyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

ACCESSION NUMBER: 1999:680067 CAPLUS  
DOCUMENT NUMBER: 131:296514  
TITLE: Herbicides containing fused imidazolinone derivatives  
INVENTOR(S): Kondo, Yasuo; Mizukoshi, Takashi; Akiyama, Shigeaki; Watanabe, Shigeomi; Akiyoshi, Chiaki; Oki, Susumu  
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.  
CODE: JPOKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11292720	AZ	19991026	JP 1998-101428	19980413
PRIORITY APPLN. INFO.:			JP 1998-101428	19980413
OTHER SOURCE(S):		MARPAT 131:296514		
GI				

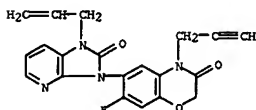


AB Agrochems., and especially new herbicides, contain fused imidazolinone derivs.

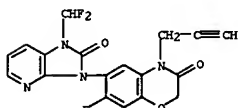
(e.g., I). Thus, in a greenhouse pot experiment I at 10 g/are gave >90% control of Echinochloa crus-galli, Scirpus juncoides, and Monochoria vaginalis with almost no damage to rice. Preparative examples and formulations are given.

IT 247181-48-2  
RL: AGK (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(preparation and herbicidal efficacy of)

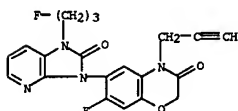
RN 247181-48-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1,2-dihydro-2-oxo-1-(2-propenyl)-3H-imidazo[4,5-b]pyridin-3-yl]-7-fluoro-4-(2-propenyl)- (9CI) (CA INDEX NAME)



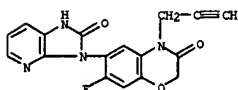
L4 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 IT 247181-46-0P 247181-47-1P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and herbicidal use of)  
 RN 247181-46-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1-(difluoromethyl)-1,2-dihydro-2-oxo-3H-imidazo[4,5-b]pyridin-3-yl]-7-fluoro-4-(2-propynyl)- (9CI) (CA INDEX NAME)



RN 247181-47-1 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-[1-(3-fluoropropyl)-1,2-dihydro-2-oxo-3H-imidazo[4,5-b]pyridin-3-yl]-4-(2-propynyl)- (9CI) (CA INDEX NAME)

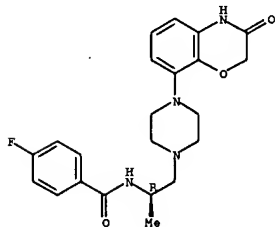


IT 247181-57-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of)  
 RN 247181-57-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1,2-dihydro-2-oxo-3H-imidazo[4,5-b]pyridin-3-yl]-7-fluoro-4-(2-propynyl)- (9CI) (CA INDEX NAME)

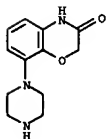


L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists)  
 RN 221193-80-2 CAPLUS  
 CN Benzamide, N-[(1R)-2-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]-1-methylethyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 105685-36-7  
 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists)  
 RN 105685-36-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



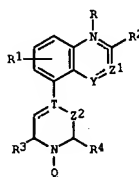
IT 221194-17-8P 221194-19-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists)  
 RN 221194-17-8 CAPLUS  
 CN Carbamic acid, [(1R)-2-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]-1-methylethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<03/01/2005>

L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1999:176950 CAPLUS  
 DOCUMENT NUMBER: 130:223299  
 TITLE: Preparation of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists  
 INVENTOR(S): Feenstra, R. W.; Visser, G. M.; Kruse, C. G.; Tulp, M. T. M.; Long, S. K.  
 PATENT ASSIGNEE(S): Duphar International Research B.V., Neth.  
 SOURCE: Eur. Pat. Appl., 26 pp.  
 CODEN: EFXADW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

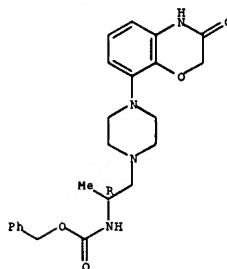
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 900792	A1	19990310	EP 1998-202832	19980824
EP 900792	B1	20031029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AT 253058	E	20031115	AT 1998-202832	19980824
CA 2246126	AA	19990302	CA 1998-2246126	19980828
JP 11147871	A2	19990602	JP 1998-259105	19980831
US 6214829	B1	20010410	US 1998-144076	19980831
PRIORITY APPLN. INFO.:		HARPAT 130:223299		
OTHER SOURCE(S):		GI		



AB Title compds. [1: Q = CH2CR5R6Z7; R,R3,R4 = H or alkyl; R1 = H or F; R2 = H, alkyl, oxo (sic); RR2 = bonds; R5,R6 = H, alkyl, alkylphenyl; R7 = cyclic group (sic), (hetero)aryl, adamantyl, etc.; T = N or C (sic); Y = C, O, N, or S (sic); Z = CH2O, CH2CO, NHCO, etc.; Z1 = (CR'')p; R'' = H or alkyl; Z2 = (CH2)n; n = 1 or 2; p = 0-2; dashed lines = optional bond(s)] were prepared. Thus, 5-(1-piperazinyl)-1,2,3,4-tetrahydroquinoline was alkylated by Cl(CH2)3COC6H4F-4 to give I [Q = (CH2)3COC6H4F-4; R-R4 = H, T = N, Y = Z1 = Z2 = CH2, dashed lines = null]. Data for biol. activity of I were given.

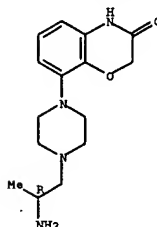
IT 221193-80-2P  
 RL: RAC (Biological activity or effector, except adverse); BSU (Biological

L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 221194-19-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[(2R)-2-aminopropyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Habte

L4 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:485181 CAPLUS

DOCUMENT NUMBER:

129:119080

TITLE:

Methods of conferring resistance to herbicides inhibiting protoporphyrinogen biosynthesis to crop plants

INVENTOR(S):

Boynton, John E.; Gillham, Nicholas W.; Randolph-Anderson, Barbara L.; Ishige, Fumiharu; Sato, Ryo

PATENT ASSIGNEE(S):

Sumitomo Chemical Co., Ltd., Japan; Duke University

SOURCE:

PCT Int. Appl., 109 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent

FAMILY ACC. NUM. COUNT:

English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9829554	A1	19980709	WO 1996-US20415	19961227
W: AU, CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2276053	AA	19980709	CA 1996-2276053	19961227
AU 9714298	A1	19980731	AU 1997-14298	19961227
AU 739948	B2	20011025		
EP 1007703	A1	20000614	EP 1996-944519	19961227
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002528036	T2	20020827	JP 1998-529941	19961227
PRIORITY APPLN. INFO.:			WO 1996-US20415	A 19961227
			US 1997-48303P	P 19970530

OTHER SOURCE(S):

HARPAT 129:119080

AB Genes for herbicide-resistant variants of protoporphyrinogen oxidase are described for use in creating herbicide-resistant crop plants. Resistance to these herbicides should allow for simpler and more effective weed management, and increase the value of these herbicides for agricultural use. The *Chlamydomonas reinhardtii* gene for protoporphyrinogen oxidase is identified and herbicide-resistance alleles created. Protoporphyrinogen oxidase genes of *Chlamydomonas reinhardtii* and *Arabidopsis thaliana* were cloned by complementation of a hemG mutant of *Escherichia coli*. In addition, the present invention provides methods to evaluate the inhibitory effects of test compds. on protoporphyrinogen oxidase activity, as well as methods to identify protoporphyrinogen oxidase inhibitors among test compds. Preferred cloned DNA fragments encoding protoporphyrinogen oxidase enzymes resistant to porphyrin herbicides are also described.

IT

123249-72-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (plant resistance to; methods of conferring resistance to herbicides inhibiting protoporphyrinogen biosynthesis to crop plants)

RW 123249-72-9 CAPLUS

CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)

L4 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:13963 CAPLUS

DOCUMENT NUMBER:

128:61517

TITLE:

Herbicidal bicyclic hydantoin derivatives, intermediates and process for their preparation

INVENTOR(S):

Hirai, Kenji; Yano, Tomoyuki; Okano, Natsuko; Ikemoto, Kazuhisa; Yoshii, Tomoko; Ugai, Sadayuki; Ueda, Takuya

PATENT ASSIGNEE(S):

Sagami Chemical Research Center, Japan; Karen

SOURCE:

Pharmaceutical Co., Ltd.

DOCUMENT TYPE:

PCT Int. Appl., 72 pp.

LANGUAGE:

CODEN: PIXXD2

FAMILY ACC. NUM. COUNT:

Patent

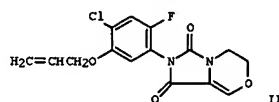
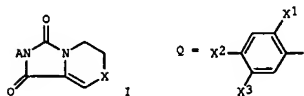
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9747626	A1	19971218	WO 1997-JP2046	19970613
W: AU, BR, CA, CH, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9731069	A1	19980107	AU 1997-31069	19970613
PRIORITY APPLN. INFO.:			JP 1996-154563	A 19960614
			WO 1997-JP2046	W 19970613

OTHER SOURCE(S):

CASREACT 128:61517; HARPAT 128:61517

GI

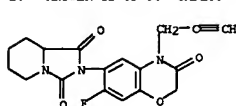


AB The title compds. I [X = O, S; A = Q, etc.; X1 = H, halo; X2 = H, halo, alkyl, etc.; X3 = H, halo, alkyl, nitro, etc.] are prepared by, e.g., reacting an aryl isocyanate derivative with a dehydro(thio)morpholinecarboxylic acid derivative. Reaction of 5-allyloxy-4-chloro-2-fluorophenylisocyanate with Me 2,3-dehydromorpholine-3-carboxylate in toluene containing triethylamine gave the title compound II in 63% yield. II (at 2.5 g/are) gave 75% control of *Echinochloa crusgalli* and caused < 25% damage to corn.

IT 200425-13-4P 200425-15-6P 200425-16-7P 200425-17-8P

&lt;03/01/2005&gt;

L4 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT:

8

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

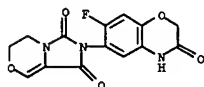
L4 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of bicyclic hydantoin derivs. as herbicides)

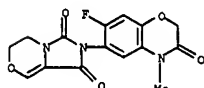
RN 200425-13-4 CAPLUS

CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-5,6-dihydro- (9CI) (CA INDEX NAME)



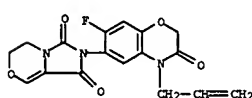
RN 200425-15-6 CAPLUS

CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-(7-fluoro-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzoxazin-6-yl)-5,6-dihydro- (9CI) (CA INDEX NAME)



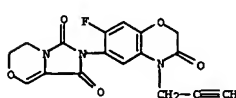
RN 200425-16-7 CAPLUS

CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-5,6-dihydro- (9CI) (CA INDEX NAME)



RN 200425-17-8 CAPLUS

CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-5,6-dihydro- (9CI) (CA INDEX NAME)



Habte

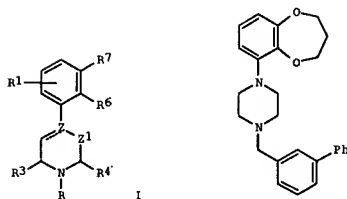
L4 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:679080 CAPLUS  
 DOCUMENT NUMBER: 127:331506  
 TITLE: Preparation of 1-biphenylmethyl-4-heteroaryl piperazines and analogs as nervous system agents  
 INVENTOR(S): Feenstra, Roelof Willem; Kruse, Cornelis Gerrit; Tulp, Martinus Theodorus Maria; Kuipers, Wilma; Long, Stephen Kenneth; et al.  
 PATENT ASSIGNER(S): Duphar International Research B.V., Neth.  
 SOURCE: PCT Int. Appl., 30 pp.  
 DOCUMENT TYPE: CODEN: PIXXD2  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: English  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9736493	A1	19971009	WO 1997-EP1461	19970320
W: AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SE, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2250347	AA	19971009	CA 1997-2250347	19970320
AU 9720294	A1	19971022	AU 1997-20294	19970320
AU 708053	B2	19990729		
EP 889889	A1	19990113	EP 1997-908288	19970320
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1215400	A	19990428	CN 1997-193520	19970320
CN 1100055	B	20030129		
BR 9708389	A	20000104	BR 1997-8389	19970320
NZ 331860	A	20000428	NZ 1997-331860	19970320
JP 2000507949	T2	20000627	JP 1997-534886	19970320
TR 9801942	T2	20000821	TR 1998-9801942	19970320
RU 2178414	C2	20020120	RU 1998-119523	19970320
CZ 294413	B6	20041215	CZ 1998-3068	19970320
ZA 9702639	A	19971002	ZA 1997-2639	19970326
TW 422846	B	20010221	TW 1997-86104056	19970328
NO 9804533	A	19981102	NO 1998-4533	19980928
KR 2000005412	A	20000125	KR 1998-708145	19980929
US 6225312	B1	20010501	US 1999-155608	19990304
PRIORITY APPLN. INFO.:			EP 1996-200864	A 19960329
			WO 1997-EP1461	W 19970320
OTHER SOURCE(S):			MARPAT 127:331506	
GI				

L4 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



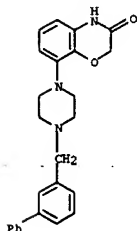
AB Title compds. [I; R = CH2Z2R5; R1 = H or F; R3, R4 = H or alkyl; R5 = (un)substituted Ph, -furyl, -thienyl; R6R7 = atoms to complete a (un)substituted heterocyclic ring; Z = C or N; Z1 = CH2 or CH2CH2; Z2 = 1,3-phenylene; dashed line = bond when Z = C and = null when Z = N] were prepared. Thus, 1-[3,4-dihydrobenzodioxepin-6-yl]piperazine was condensed with 3-bromomethylbiphenyl to give title compound II. Data for biol. activity of I were given.

IT 197954-64-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 1-biphenylmethyl-4-heteroaryl piperazines and analogs as nervous system agents)

RW 197954-64-6 CAPLUS

CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-([1,1'-biphenyl]-3-ylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

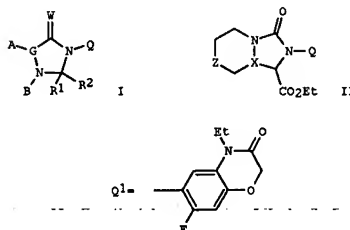


L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:547276 CAPLUS  
 DOCUMENT NUMBER: 127:149151  
 TITLE: Preparation of N-phenylimidazolones as herbicides  
 INVENTOR(S): Kilama, John Jolly  
 PATENT ASSIGNER(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: U.S., 46 pp., Cont.-in-part of U.S. Ser. No. 109,875, abandoned.  
 DOCUMENT TYPE: CODEN: USXXAM  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: English  
 PATENT INFORMATION: 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5643855	A	19970701	US 1995-454155	19950615
CA 2151816	AA	19940707	CA 1993-2151816	19931207
WO 9414817	A1	19940707	WO 1993-US11636	19931207
W: AU, BE, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, US, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1992-992880	B2 19921221
			US 1993-73012	B2 19930604
			US 1993-96526	B2 19930722
			US 1993-109875	B2 19930820
			WO 1993-US11636	W 19931207

OTHER SOURCE(S): MARPAT 127:149151  
 GI



AB Comps. such as Formula [I; Q = (un)substituted 2-halophenyl, benzene ring-condensed heterocyclyl; R1 = H, alkyl, haloalkyl, halo; R2 = (un)substituted C1-2 alkyl, CO2H, CONH2, or S(O)nNH2, cyano, etc.; wherein n = 0-2; or R1 and R2 can be taken together along with the carbon to which they are attached to form C:CHCO2H, C:CHaCO2H, C:CHtCO2H, or esters thereof, N-(un)substituted C:CHCONH2, C:CHaCONH2, or C:CHtCONH2; G = CH,

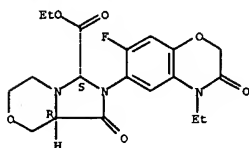
Habte

L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
C(C1-4 alkyl), A = C1-4 haloalkyl, C2-4 alkenyl or alkynyl, halo, (un)substituted OH or SH; A and B can be taken together to form CHR7CHR6CHR3, CHR7CHR6CHR4CHR5, CHR7OCHR4CHR5, CHR7SCHR4CHR5, CHR7SO2CHR4CHR5, N-(un)substituted CHR7NHCHR4CHR5 or CHR4CHR5NHCHR3, CHR7CR6:CR6CHR3, CHR4CHR5 SO2CHR4CHR5, CHR7SO2CHR3; wherein R3 - R7 = H, halo, C1-4 alkyl, C1-4 haloalkyl; or R3 and R6, or R6 and R7 can be taken together to form CH2; W = O or S; are prep'd. Thus, 4-chloro-2-fluoro-5-(1-methylethoxy)aniline was stirred with Me3Al in CH2CH2 overnight at room temp. followed by adding 3-morpholinecarboxylic acid and the resultant mixt. was stirred at room temp. for 2 days to give N-[4-chloro-2-fluoro-5-(1-methylethoxy)phenyl]morpholine-3-carboxamide. The latter compd. was stirred with Et bromofluoroacetate in the presence of K2CO3 in MeCN under reflux to give an imidazo[5,1-c][1,4]oxazine deriv. [II; X = CH, Z = O, Q = 4-chloro-2-fluoro-5-(1-methylethoxy)phenyl]. The latter compd. at 2,000 g/ha preemergence controlled giant fox tail, lambsquarter, and wild buckwheat by 3, 10, and 8 in a scale of from 0 (no control) to 10 (complete control). II (X = N, Z = CH2, Q = Q1) at 1,000 g/ha preemergence completely controlled barnyard grass, bedstraw, cheat grass, chickweed, cocklebur, crab grass, giant foxtail, lambsquarter, morning glory, nutsedge, velvet leaf, and wild buckwheat.

IT 193342-21-1P 193342-22-2P 193342-24-4P  
193342-25-5P 193342-26-6P 193342-27-7P  
193342-28-8P 193342-29-9P 193342-31-3P  
193342-32-4P 193342-33-5P 193342-34-6P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of N-phenylimidazolones as herbicides)

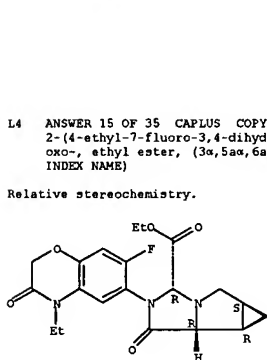
RN 193342-21-1 CAPLUS  
CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis-(9CI) (CA INDEX NAME)

Relative stereochemistry.



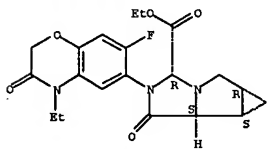
RN 193342-22-2 CAPLUS  
CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans-(9CI) (CA INDEX NAME)

Relative stereochemistry.



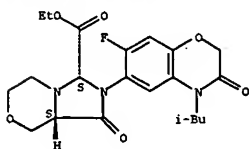
RN 193342-27-7 CAPLUS  
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-28-8 CAPLUS  
CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans-(9CI) (CA INDEX NAME)

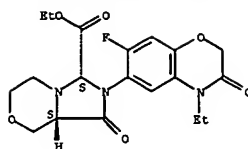
Relative stereochemistry.



RN 193342-29-9 CAPLUS  
CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(7-fluoro-3,4-dihydro-4-

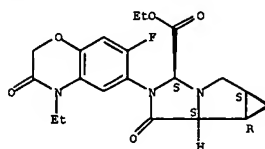
<03/01/2005>

L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



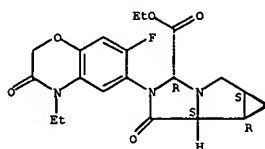
RN 193342-24-4 CAPLUS  
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-25-5 CAPLUS  
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

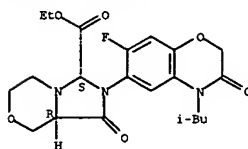
Relative stereochemistry.



RN 193342-26-6 CAPLUS  
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid,

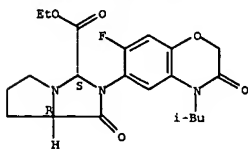
L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



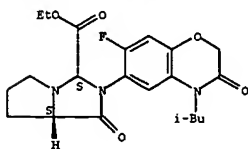
RN 193342-31-3 CAPLUS  
CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-32-4 CAPLUS  
CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans-(9CI) (CA INDEX NAME)

Relative stereochemistry.

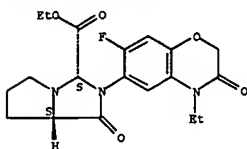


RN 193342-33-5 CAPLUS  
CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans-(9CI) (CA INDEX NAME)

Habte

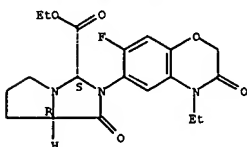
L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Relative stereochemistry.

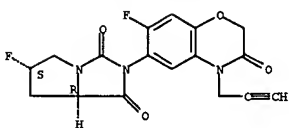


RN 193342-34-6 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis-(9CI) (CA INDEX NAME)

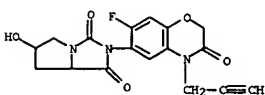
Relative stereochemistry.



L4 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

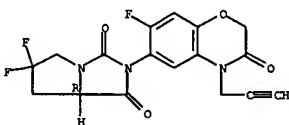


RN 187750-21-6 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-6-hydroxy-, (R)- (9CI) (CA INDEX NAME)



RN 187750-22-7 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 6,6-difluoro-2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, (R)- (9CI) (CA INDEX NAME)

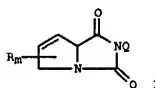
Absolute stereochemistry.



L4 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1997:196176 CAPLUS  
 DOCUMENT NUMBER: 126:196422  
 TITLE: Preparation of bicyclic imides as herbicides  
 INVENTOR(S): Schafer, Matthias; Drauz, Karlheinz; Feit, Dieter; Amati, Kofi S.  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: U.S., 31 pp., Cont.-in-part of U.S. Ser. No. 942,800, abandoned  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5605877	A	19970225	US 1995-397282	19950310
WO 9405668	A1	19940317	WO 1993-EP2413	19930906
W:	AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, HL, MR, NE, SN, TD, TG			
DE 9321642	U1	20011213	DE 1993-9321642	19930906
PRIORITY APPLN. INFO.:			US 1992-942800	B2 19920910
			WO 1993-EP2413	W 19930906
			DE 1993-69329683	A 19930906

OTHER SOURCE(S): HARPAT 126:196422  
 GI



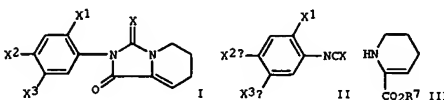
AB The title compds. I [Q = (un)substituted Ph, 2-phenyldioxolane, benzodioxole, etc.; R = OH, halo, alkyl, CN, etc.; m = 1-7] are prepared as herbicides. I may be used, i.e., in pre-emergence application to peanut.  
 IT 187750-20-5P 187750-21-6P 187750-22-7P  
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation as herbicide)  
 RN 187750-20-5 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 6-fluoro-2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, (6S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1996:531796 CAPLUS  
 DOCUMENT NUMBER: 125:167985  
 TITLE: Hydantoin derivatives, process for producing the same and herbicides comprising the same as active ingredients  
 INVENTOR(S): Hirai, Kenji; Yano, Tomoyuki; Okano, Natuko; Ugai, Sadyuki; Yamada, Osamu  
 PATENT ASSIGNEE(S): Sagami Chemical Research Center, Japan; Kaken Pharmaceutical Co., Ltd.  
 SOURCE: PCT Int. Appl., 111 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620195	A1	19960704	WO 1995-JP2683	19951226
W:	AU, BR, CA, CN, KR, US			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
CA 2208263	AA	19960704	CA 1995-2208263	19951226
AU 9643157	A1	19960719	AU 1996-43157	19951226
AU 692030	B2	19980528		
JP 09040673	A2	19970210	JP 1995-338383	19951226
EP 801068	A1	19971015	EP 1995-941888	19951226
R:	AT, CH, DE, ES, FR, GB, GR, IT, LI, PT, IE			
BR 9510107	A	19971125	BR 1995-10107	19951226
CN 1175255	A	19980304	CN 1995-197677	19951226
US 5883049	A	19990316	US 1997-836154	19970818
PRIORITY APPLN. INFO.:			JP 1994-324536	A 19941227
			JP 1995-122054	A 19950522
			WO 1995-JP2683	W 19951226

OTHER SOURCE(S): CASREACT 125:167985; HARPAT 125:167985  
 GI

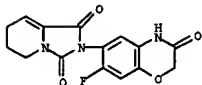


AB Novel 2-phenyl-5,6-dihydroimidazo[1,5-a]pyridine-1,3(2H,7H)-dione derivs. (I; X = O, S; X1 = H, halo, C1-8 alkyl; X2 = H, halo, C1-8 alkyl, Y-CH(R)CO2R2; X3 = H, halo, C1-8 alkyl, ZR3, NO2, NR4R5; or XZK3 = Y-CH(R)CONR6; wherein Y, Z = O or S; R1 = H, C1-4 alkyl; R2 = C1-6 alkyl, aralkyl; R3 = H, C1-11 alkyl, C3-8 cycloalkyl, C3-12 alkenyl or alkynyl, C1-8 alkoxy-carbonylmethyl or alkoxy-carbonyl, C7-11 aralkyloxy-carbonyl; R4, R5 = H, C1-6 alkyl, C2-6 acyl, C1-6 alkylsulfonyl, arylsulfonyl; R6 = H, C1-11 alkyl, C3-8 cycloalkyl, C3-12 alkenyl or alkynyl), having excellent herbicidal activities, are produced by reacting aryl isocyanate derivs. represented by general formula (II) X = O, S; X1, X2 = H, halo, C1-8 alkyl; X3 = H, halo, C1-8 alkyl, ZR3, NO2, NR4R5; R3a = C1-11 alkyl, C3-8 cycloalkyl, C3-12 alkenyl or alkynyl, C1-8 alkoxy-carbonylmethyl or

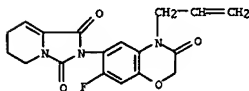
L4 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
alkoxycarbonyl, C7-11 aralkyloxycarbonyl; R4a, R5b = Cl-6 alkyl, C2-6 acyl, C1-6 alkylsulfonyl, arylsulfonyl, with a dehydripecolinic acid deriv. represented by general formula (III); R7 = H, Cl-6 alkyl). Thus, a soln. of 4-chloro-5-cyclopentyl-2-fluorophenyl isocyanate and Et3N in toluene was added dropwise to a soln. of III (R7 = Et) in toluene under ice-cooling and stirred at the same temp. for 30, at room temp. for 7 h, at 60° for 1 h, and at 80° for 1 h to give I (X = O, X1 = F, X2 = Cl, X3 = cyclopentyl). I (X = O, X1 = F, X2 = Cl, X3 = Me) at 0.1, 0.25, and 0.5/are (postemergence application in flooded soil) inhibited 100% the growth of rice paddy weeds such as Echinochloa crus-galli, Cyperus difformis, broad leaf weed, Monochoria vaginalis, Scirpus juncoides, and Eleocharis acicularis and 25-38% the growth of rice seedlings.

IT 180533-07-7P 180533-08-8P 180533-09-9P  
180533-10-2P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of phenylidihydroimidazopyridinedione derivs. as herbicides)

RN 180533-07-7 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)



RN 180533-08-8 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)

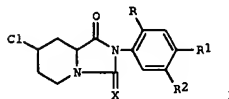


RN 180533-09-9 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1996:190874 CAPLUS  
DOCUMENT NUMBER: 124:261061  
TITLE: Preparation of 2-phenyl-7-chloroperhydroimidazo[1,5-a]pyridine herbicides for controlling undesired weeds  
INVENTOR(S): Seckinger, Karl; Mohanty, Sasank Sekhar; Milzner, Karlheinz; Kuhn, Fred  
PATENT ASSIGNEE(S): Sandoz Ltd., Switz.; Sandoz-Patent-GmbH; Sandoz-Erfindungen Verwaltungsgesellschaft m.b.H.  
SOURCE: Eur. Pat. Appl., 24 pp.  
CODEN: EPXKDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 688773	A1	19951227	EP 1995-810410	19950620
EP 688773	B1	19980520		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
US 5665681	A	19970909	US 1995-492687	19950620
JP 08053449	A2	19960227	JP 1995-154600	19950621
			GB 1994-12603	A 19940623

PRIORITY APPL. INFO.: CASREACT 124:261061; MARPAT 124:261061  
OTHER SOURCE(S): GI



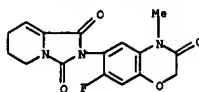
AB The title compds. (I; X = O, S; R = H, Cl, F; R1 = F, Cl, Br, CN, Me; R2 = halogen, C 1-6 alkyl, Cl-6 alkoxy, Cl-6 alkylcarbonyloxy, C3-6 cycloalkoxy, C3-6 alkynyl, C3-6 alkenyl, CO2H, etc.), useful as herbicides for the control of undesired weeds, are prepared. Thus, 4-chloro-2-piperidinecarboxylic acid Me ester hydrochloride was reacted with the isocyanate of Me 2-chloro-4-fluoro-5-aminocinnamate, producing herbicidal Me 2-chloro-4-fluoro-5-(7-chloroperhydroimidazo[1,5-a]pyridine-1,3-dione-2-yl)cinnamate, m.p. 162-163°.

IT 174798-43-7P 174798-44-8P 174798-45-9P  
174798-46-0P 174798-47-1P 174798-48-2P  
174798-49-3P 174798-50-6P 174798-51-7P 174798-52-8P  
174798-53-9P 174798-54-0P 174798-55-1P  
174798-56-2P 174798-57-3P

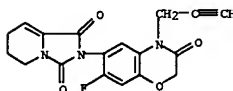
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of 2-phenyl-7-chloroperhydroimidazo[1,5-a]pyridine herbicides for controlling undesired weeds)

RN 174798-43-7 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(7-chlorohexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-7-fluoro- (9CI) (CA INDEX NAME)

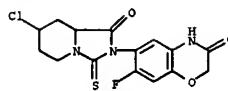
L4 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



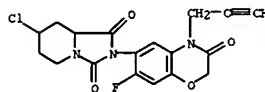
RN 180533-10-2 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)



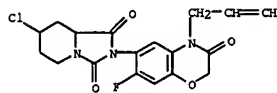
L4 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



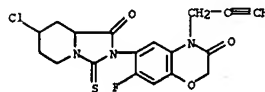
RN 174798-44-8 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



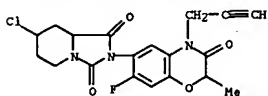
RN 174798-45-9 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



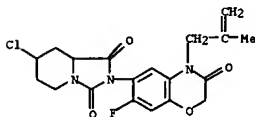
RN 174798-46-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(7-chlorohexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-7-fluoro-4-(2-propenyl)- (9CI) (CA INDEX NAME)



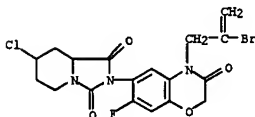
RN 174798-47-1 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-2-methyl-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



RN 174798-49-3 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-[(7-fluoro-3,4-dihydro-4-(2-methyl-2-propenyl)-3-oxo-2H-1,4-benzoxazin-6-yl)]tetrahydro- (9CI)  
(CA INDEX NAME)

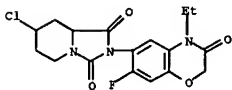


RN 174798-50-6 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-(2-bromo-2-propenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]-7-chlorotetrahydro- (9CI)  
(CA INDEX NAME)

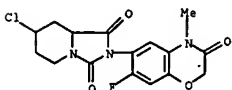


RN 174798-51-7 CAPLUS  
CN 2-Butenoic acid, 4-[6-(7-chlorohexahydro-1,3-dioxoimidazo[1,5-a]pyridin-2(3H)-yl)-7-fluoro-2,3-dihydro-3-oxo-4H-1,4-benzoxazin-4-yl]-, methyl ester (9CI) (CA INDEX NAME)

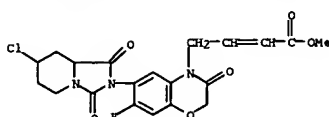
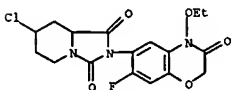
RN 174798-55-1 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



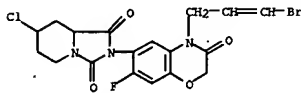
RN 174798-56-2 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



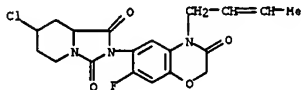
RN 174798-59-5 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(4-ethoxy-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



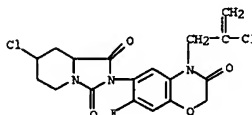
RN 174798-52-8 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-(3-bromo-2-propenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]-7-chlorotetrahydro- (9CI)  
(CA INDEX NAME)



RN 174798-53-9 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-(2-butenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]-7-chlorotetrahydro- (9CI) (CA INDEX NAME)



RN 174798-54-0 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-[4-(2-chloro-2-propenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1995:994364 CAPLUS  
DOCUMENT NUMBER: 124:87028  
TITLE: Herbicidal tricyclic heterocycles and bicyclic ureas  
INVENTOR(S): Kilama, John Jolly  
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA; Degussa Aktiengesellschaft  
SOURCE: PCT Int. Appl., 87 pp.  
CODEN: PIXKD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9522547	A1	19950824	WO 1995-US1502	19950210
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2183328	AA	19950824	CA 1995-2183328	19950210
AU 9518714	A1	19950904	AU 1995-18714	19950210
AU 678896	B2	19970612		
EP 745084	A1	19961204	EP 1995-910926	19950210
R: DE, ES, FR, GB, IT				
US 5700761	A	19971223	US 1996-693107	19960815
PRIORITY APPLN. INFO.:			US 1994-197085	A2 19940216
			WO 1995-US1502	W 19950210
OTHER SOURCE(S):		MARPAT 124:87028		
GI				

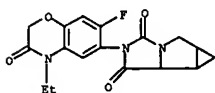
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Compds. I-IV, useful as herbicides, are disclosed [wherein Q = certain (un)substituted and/or (hetero)fused Ph groups; R1 = H, halo, Cl-3 alkyl; R2 = H, F, Cl, Br, V = O, S; X = halo, cyano; n = 1, 2; p = 0 or 1 provided that when n = 2 then p = 0; R3 = H, Cl-5 (halo)alkyl, C3-6 (halo)cycloalkyl, (un)substituted Ph; plus N-oxides and salts]. For example, cis-1,2-cyclopropanedicarboximide [prepared in 3 steps] was reduced with BH3.THF and acidified to give 67% 3-azabicyclo[3.1.0]hexane-HCl, which underwent N-chlorination with NCS, dehydrochlorination, cyanation with NaCN, and hydrolysis, to give 69% 3-azabicyclo[3.1.0]hexane-2-carboxylic acid. This underwent amidation with 4-chloro-2-fluoro-5-(2-propenyloxy)aniline and cyclization with triphosgene to give title compound V. At 100 g/ha postemergence, V gave complete kill of barnyardgrass, chickweed, cocklebur, lambsquarters, and morningglory. Data include characterizations of 54 compds. I, 5 example syntheses, and results from 6 different herbicidal screenings of various sets of I.

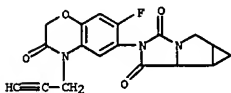
IT 172404-13-6P 172404-14-7P 172404-15-8P  
172404-16-9P 172404-17-0P 172404-18-1P  
172404-19-2P 172404-45-0P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

Habte

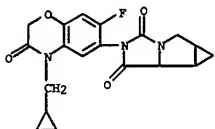
L4 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 (Prepn. of herbicidal tricyclic heterocycles and bicyclic ureas)  
 RN 172404-13-6 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,  
 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro-  
 (9CI) (CA INDEX NAME)



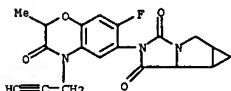
RN 172404-14-7 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,  
 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



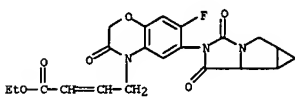
RN 172404-15-8 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,  
 2-(4-(cyclopropylmethyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



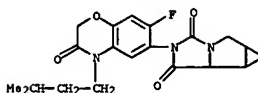
RN 172404-16-9 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,  
 2-(7-fluoro-3,4-dihydro-4-(3-methylbutyl)-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



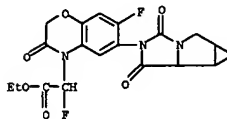
RN 172644-45-0 CAPLUS  
 CN 2-Butenoic acid, 4-(7-fluoro-6-(hexahydro-1,3-dioxocyclopropa[3,4]pyrrolo[1,2-c]imidazol-2(3H)-yl)-2,3-dihydro-3-oxo-4H-1,4-benzoxazin-4-yl)-, ethyl ester (9CI) (CA INDEX NAME)



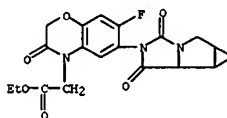
L4 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 172404-17-0 CAPLUS  
 CN 4H-1,4-benzoxazine-4-acetic acid, alpha,7-difluoro-6-(hexahydro-1,3-dioxocyclopropa[3,4]pyrrolo[1,2-c]imidazol-2(3H)-yl)-2,3-dihydro-3-oxo-ethyl ester (9CI) (CA INDEX NAME)



RN 172404-18-1 CAPLUS  
 CN 4H-1,4-benzoxazine-4-acetic acid, 7-fluoro-6-(hexahydro-1,3-dioxocyclopropa[3,4]pyrrolo[1,2-c]imidazol-2(3H)-yl)-2,3-dihydro-3-oxo-ethyl ester (9CI) (CA INDEX NAME)



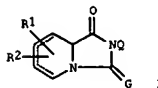
RN 172404-19-2 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,  
 2-(7-fluoro-3,4-dihydro-2-methyl-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:888099 CAPLUS  
 DOCUMENT NUMBER: 123:332749  
 TITLE: Herbicidal bicyclic hydantoins.  
 INVENTOR(S): Schaefer, Mathias  
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA; Degussa Aktiengesellschaft  
 SOURCE: PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

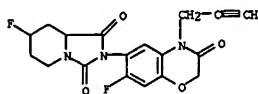
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9523509	A1	19950908	WO 1995-US2665	19950228
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9521155	A1	19950918	AU 1995-21155	19950228
PRIORITY APPLN. INFO.:			US 1994-204027	A 19940301
			WO 1995-US2665	W 19950228
OTHER SOURCE(S):		MARPAT 123:332749		
GI				



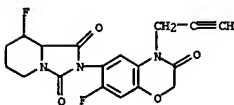
AB The title compds. I [G = O, S, NH; R1 = halo, OH, CN, alkyl, etc.; R2 = H, OH, halo; R1R2 = O; Q = (un)substituted Ph, benzoxazinyl, etc.] are herbicides. I provide broad-spectrum weed control in citrus, sugarcane, coffee, banana, oil palm, loblolly pine, rubber tree, cocoa, grapes, plantain, pineapple, fruit trees, nut trees, and the like.  
 2-[4-Chloro-2-fluoro-5-(1-methylethoxy)phenyl]-7-fluorotetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione is an example.

IT 169554-95-4 169554-96-5 169554-97-6  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicidal bicyclic hydantoins)  
 RN 169554-95-4 CAPLUS  
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-fluoro-2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)

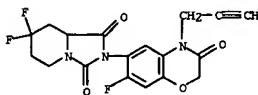
L4 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 169554-96-5 CAPLUS  
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 8-fluoro-2-[(7-fluoro-3,4-dihydro-3-oxo-4-[(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)]



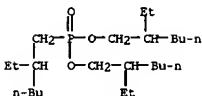
RN 169554-97-6 CAPLUS  
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7,7-difluoro-2-[(7-fluoro-3,4-dihydro-3-oxo-4-[(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)]



L4 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CH 2

CRN 126-63-6  
 CHF C24 H51 O3 P



L4 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:46850 CAPLUS  
 DOCUMENT NUMBER: 122:3566  
 TITLE: Synergistic herbicidal mixtures containing a phosphonate.  
 INVENTOR(S): Mach, Martin; Fischer, Bernd; Bohnert, Juergen; Rees, Richard  
 PATENT ASSIGNEE(S): Schering A.-G., Germany  
 SOURCE: Ger., 9 pp.  
 CODEN: GWXXAW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4305542	C1	19940721	DE 1993-4305542	19930220
CA 2156494	AA	19940901	CA 1994-2156494	19940217
WO 9418837	A1	19940901	WO 1994-EP571	19940217
W: CA, RU, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 684766	A1	19951206	EP 1994-909081	19940217
EP 684766	B1	19970416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 151598	E	19970515	AT 1994-909081	19940217
PRIORITY APPLN. INFO.:			DE 1993-4305542	A 19930220
			WO 1994-EP571	W 19940217

AB Synergistic mixts. comprise 0,0-bis(2-ethylhexyl) (2-ethylhexyl)phosphonate (I) and any of 16 known herbicides. Thus, a mixture of 750 g chlortoluron and 48 g I/ha synergistically controlled Stellaria media and Matricaria chamomilla, when applied postemergence to winter wheat.

IT 158988-74-0  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

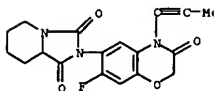
(herbicide, synergistic)

RN 158988-74-0 CAPLUS

CN Phosphonic acid, (2-ethylhexyl)-, bis(2-ethylhexyl) ester, mixt. with 2-[(7-fluoro-3,4-dihydro-3-oxo-4-[(1-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-2H-1,4-benzoxazin-3(4H)-one (9CI) (CA INDEX NAME)]

CH 1

CRN 158988-73-9  
 CHF C18 H16 F N3 O4

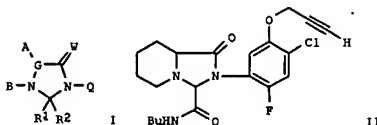


L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:630804 CAPLUS  
 DOCUMENT NUMBER: 121:230804  
 TITLE: Herbicidal imidazolones and imidazol[1,5-a]pyridinones  
 INVENTOR(S): Kilama, John Jolly  
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA  
 SOURCE: PCT Int. Appl., 105 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9414817	A1	19940707	WO 1993-US11636	19931207
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, LV, MG, MW, MY, NO, NZ, PL, RO, RU, SD, SK, UA, US, US, US, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2151816	AA	19940707	CA 1993-2151816	19931207
AU 9457338	A1	19940719	AU 1994-57338	19931207
AU 674912	B2	19970116		
EP 674644	A1	19951004	EP 1994-903373	19931207
R: DE, ES, FR, GB, IT				
US 5643655	A	19970701	US 1995-454155	19950615
PRIORITY APPLN. INFO.:			US 1992-992880	A 19921221
			US 1993-73010	A 19930604
			US 1993-96526	A 19930722
			US 1993-109875	A 19930820
			WO 1993-US11636	W 19931207

OTHER SOURCE(S): MARPAT 121:230804  
 GI



AB Imidazolones I (Q = aryl, heteroaryl, benzodiazepinyl, etc.; R1 = H; alkyl, haloalkyl, etc.; R2 = alkyl, alkoxy, carbonyl, etc.; A = alkyl, alkenyl, etc.; B = alkyl, alkynyl, haloalkyl, etc.; W = oxygen, sulfur) were disclosed. The uses of I as herbicides are claimed. An example compound,

N-butyl-2-[(4-chloro-2-fluoro-5-[(2-propynyl)oxy]phenyl]octahydro-1-oxoimidazol[1,5-a]pyridine-3-carboxamide (II) was prepared

IT 193342-21-1P 193342-22-2P 193342-24-4P

193342-25-5P 193342-26-6P 193342-27-7P

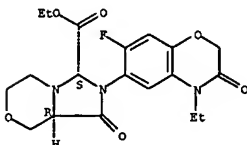
193342-28-8P 193342-29-9P 193342-31-3P

193342-32-4P 193342-33-5P 193342-34-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic)

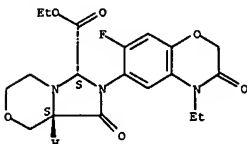
L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of, as herbicide)  
 RN 193342-21-1 CAPLUS  
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-22-2 CAPLUS  
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



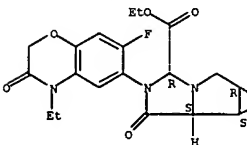
RN 193342-24-4 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aα,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



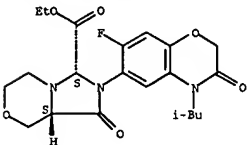
L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aα,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



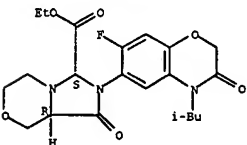
RN 193342-28-8 CAPLUS  
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-29-9 CAPLUS  
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

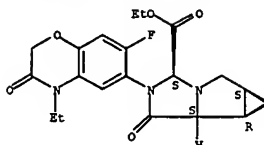
Relative stereochemistry.



RN 193342-31-3 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

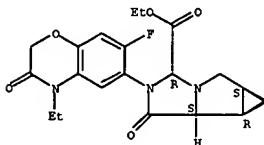
<03/01/2005>

L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



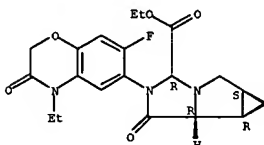
RN 193342-25-5 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aα,6aα,6bα)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-26-6 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aα,6aα,6bβ)- (9CI) (CA INDEX NAME)

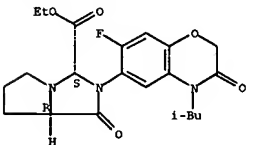
Relative stereochemistry.



RN 193342-27-7 CAPLUS  
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aα,6aα,6bβ)- (9CI) (CA INDEX NAME)

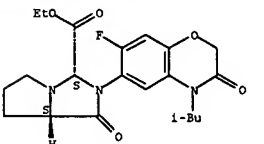
L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



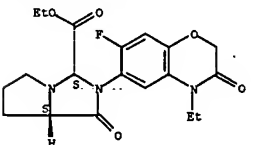
RN 193342-32-4 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-33-5 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

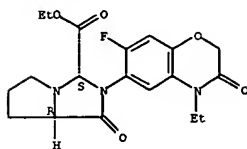
Relative stereochemistry.



RN 193342-34-6 CAPLUS  
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Habte

L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
Relative stereochemistry.



L4 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1994:164204 CAPLUS

DOCUMENT NUMBER: 120:164204

TITLE: Preparation of D,L-2-(7-fluor-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-6-yl)perhydroimidazo[1,5-a]pyridine-1,3-diones

INVENTOR(S): Ganter, Michael; Puttner, Reinhold; Seba, Hartmut

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: Ger., 12 pp.  
CODEN: GWXAW

DOCUMENT TYPE: Patent

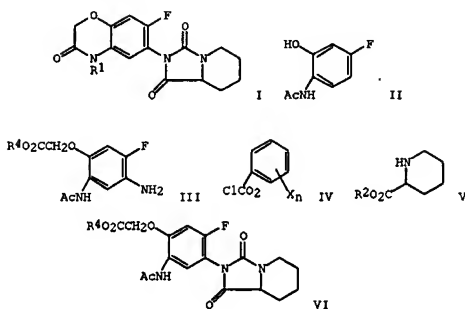
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4208778	C1	19930923	DE 1992-4208778	19920317
WO 9319065	A1	19930930	WO 1993-EP598	19930310
W: HU, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 631579	A1	19950104	EP 1993-906536	19930310
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 07504671	T2	19950525	JP 1993-516237	19930310
HU 68172	A2	19950529	HU 1994-2674	19930310
HU 211068	B	19951030		
PRIORITY APPLN. INFO.:				
			DE 1992-4208778	A 19920317
			WO 1993-EP598	W 19930310
OTHER SOURCE(S):				
GI			HARPAT 120:164204	

L4 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Title compds. (I; R1 = alkyl, alkenyl, alkynyl) were prepared by 1) acetylation of 2-amino-5-fluorophenol with AcCl or Ac2O in the presence of an acid acceptor, optionally in a solvent, to give II, 2) treatment of II with R4O2CCH2Y (R4 = H, alkyl; Y = halo, MeSO2O, 4-MeC6H4SO2O) to give the ether deriv, 3) nitration of the ether with HNO3 or an (in)organic derivative,

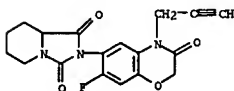
optionally in a solvent, 4) hydrogenation to give intermediate III, 5) acylation of the amine with chloroformate IV (X = halo, NO2, cyano; n = 0-5) in an inert solvent, optionally in the presence of an (in)organic acid acceptor, 6) treatment of the resulting phenoxyacetate deriv with piperidinecarboxylate V (R2 = H, Me, Et) to give hydantoin VI, 7) cyclization of VI, optionally in the presence of acid or base, and 8) treatment of the cyclized product with R1W (W = Cl, Br, iodo, MeSO2O, 4-MeC6H4SO2O). I (R1 = 2-propynyl) was prepared as above with yields of 84-99% per step.

IT 123249-72-99

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 123249-72-9 CAPLUS

CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



IT 153084-00-5P

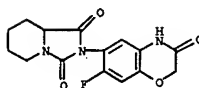
RL: SPN (Synthetic preparation); PREP (Preparation)

<03/01/2005>

L4 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
(prepn. of, as herbicide intermediate)

RN 153084-00-5 CAPLUS

CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



Habte

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:488917 CAPLUS

DOCUMENT NUMBER: 119:88917

TITLE: Synergistic herbicidal compositions comprising an imidazopyridinedione derivative.

INVENTOR(S): Johann, Gerhard; Rees, Richard

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: Ger. Offen., 8 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4136740	A1	19930506	DE 1991-4136740	19911105
WO 9308689	A1	19930513	WO 1992-EP2535	19921030
W: AU, BR, CA, FI, HU, JP, KR, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
AU 9229204	A1	19930607	AU 1992-29204	19921030
EP 612213	A1	19940831	EP 1992-923266	19921030
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
HU 66872	A2	19950130	HU 1994-1307	19921030
JP 07502498	T2	19950316	JP 1992-508170	19921030
BR 9206712	A	19951024	BR 1992-6712	19921030
ZA 9208540	A	19930505	ZA 1992-8540	19921105
CN 1073071	A	19930616	CN 1992-113786	19921105
FI 9402050	A	19940504	FI 1994-2050	19940504

PRIORITY APPL. INFO.:

AB Mixts. of 2-[7-fluoro-3-oxo-4-(2-propynyl)-3,4-dihydro-2H-1,4-benzoxazin-6-yl]perhydroimidazo[1,5-a]pyridine-1,3-dione (I) with glyphosate, sulfometuron-methyl, imazapyr, 2,4-D, dicamba, diuron, oxyfluorfen, glufosinate ammonium, aminotriazole or sethoxydim, are synergistic herbicides. Postemergence application of a mixture of 4 g/l and 100 g 2,4-D/ha, synergistically controlled *Sesbania exaltata*, *Bidens pilosa* and *Amaranthus retroflexus*.

IT 148645-25-4 148645-25-5 148645-27-6

148645-28-7 148645-29-8 148645-30-1

148645-31-2 148645-32-3 148645-33-4

148690-59-9

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(herbicide, synergistic)

RN 148645-25-4 CAPLUS

CN Benzoic acid, 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl-, methyl ester, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

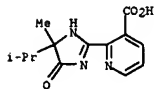
CH 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

(Continued)



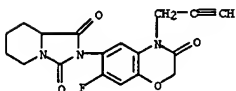
RN 148645-27-6 CAPLUS

CN Acetic acid, (2,4-dichlorophenoxy)-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

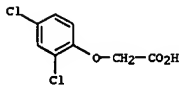
CMF C18 H16 F N3 O4



CH 2

CRN 94-75-7

CMF C8 H6 C12 O3



RN 148645-28-7 CAPLUS

CN Benzoic acid, 3,6-dichloro-2-methoxy-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

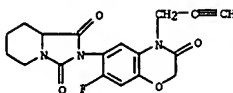
CH 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

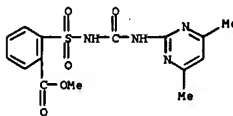
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CH 2

CRN 74222-97-2

CMF C15 H16 N4 O5 S



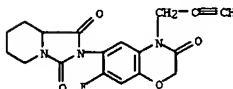
RN 148645-26-5 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-6,7,8,8a-tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

CMF C18 H16 F N3 O4



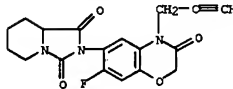
CH 2

CRN 81334-34-1

CMF C13 H15 N3 O3

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

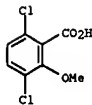
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CH 2

CRN 1918-00-9

CMF C8 H6 C12 O3



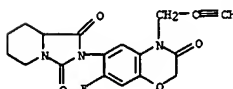
RN 148645-29-8 CAPLUS

CN Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

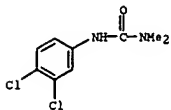
CMF C18 H16 F N3 O4



CH 2

CRN 330-54-1

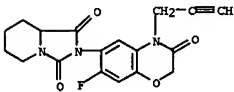
CMF C9 H10 C12 N2 O



RN 148645-30-1 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, mixt. with 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene (9CI) (CA INDEX NAME)

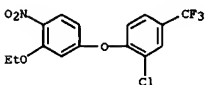
CM 1

CRN 123249-72-9  
CMF C18 H16 F N3 O4



CM 2

CRN 42874-03-3  
CMF C15 H11 Cl F3 N O4



RN 148645-31-2 CAPLUS  
CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CM 1

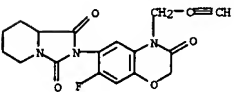
CRN 123249-72-9



RN 148645-33-4 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, mixt. with 2-[1-(ethoxymino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one (9CI) (CA INDEX NAME)

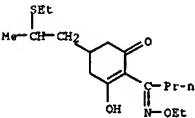
CM 1

CRN 123249-72-9  
CMF C18 H16 F N3 O4



CM 2

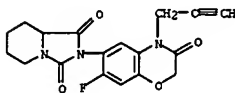
CRN 74051-80-2  
CMF C17 H29 N O3 S



RN 148690-59-9 CAPLUS  
CN Glycine, N-(phosphonomethyl)-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

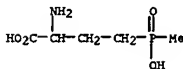
CM 1

CRN 123249-72-9  
CMF C18 H16 F N3 O4



CM 2

CRN 77182-82-2  
CMF C5 H12 N O4 P . H3 N

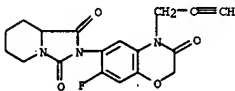


● NH3

RN 148645-32-3 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, mixt. with 1H-1,2,4-triazol-3-amine (9CI) (CA INDEX NAME)

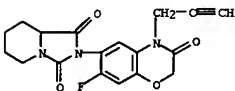
CM 1

CRN 123249-72-9  
CMF C18 H16 F N3 O4



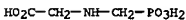
CM 2

CRN 61-82-5  
CMF C2 H4 N4



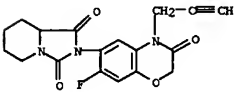
CM 2

CRN 1071-83-6  
CMF C3 H8 N O5 P



IT 123249-72-9D, mixts. containing  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(herbicides, synergistic)

RN 123249-72-9 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



L4 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:124517 CAPLUS

DOCUMENT NUMBER: 118:124517

TITLE: Preparation of 1-acyl-2-carboxyl-4,5-epoxypiperidines as herbicides

INVENTOR(S): Seckinger, Karl; Milzner, Karlheinz; Kuhn, Fred;

Mohanthy, Sasank Sekhar

PATENT ASSIGNEE(S): Sandoz Ltd., Switz.; Sandoz-Patent-G.m.b.H.;

Sandoz-Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: Eur. Pat. Appl., 41 pp.

CODEN: EPXMDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

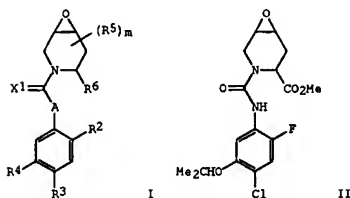
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 514339	A1	19921119	EP 1992-810350	19920511
R: AT, BE, CH,	DE, DK, ES, FR, GB,	GR, IT, LI, LU, NL, PT, SE		
HU 61654	A2	19930301	HU 1992-1457	19920430
CA 2068846	AA	19921118	CA 1992-2068846	19920515
AU 9216322	A1	19921119	AU 1992-16322	19920515
AU 644058	B2	19931202		
BR 9201856	A	19930105	BR 1992-1856	19920515
JP 05163274	A2	19930629	JP 1992-123139	19920515
ZA 9203570	A	19931115	ZA 1992-3570	19920515
US 5221744	A	19930622	US 1992-931250	19920817
PRIORITY APPLM. INFO.:			GB 1991-10679	A 19910517
			US 1992-880431	B1 19920508

OTHER SOURCE(S):

GI

MARFAT 118:124517



AB Title compds. [I; R2 = H, halo; R3 = halo, cyano, alkyl; R4 = H, halo, NO2, amino, cyano, (cyano)alkyl, (cyano)alkenyl, alkynyl, (substituted) alkoxy, alkoxyalkyl, alkoxyalkoxyalkyl, alkoxyalkoxyalkenyl, alkoxyalkoxyalkyl, alkoxyalkoxyalkyl, alkoxyalkoxyalkyl, etc.; R3R4 = atoms to form an (O-, N-, or S-containing) (substituted) ring; R5 = H, alkyl, halo, OH,

L4 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:429351 CAPLUS

DOCUMENT NUMBER: 115:29351

TITLE: Preparation of (N-heterocyclophenyl)alkylidenedioxasoles as herbicides and plant growth regulators

INVENTOR(S): Ooms, Pieter; Luerksen, Klaus; Santel, Hans Joachim;

Schmidt, Robert R.; Krauskopf, Birgit

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 40 pp.

CODEN: GWXKEX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

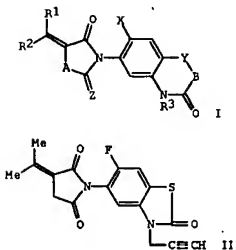
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3922107	A1	19910117	DE 1989-3922107	19890705
PRIORITY APPLM. INFO.:			DE 1989-3922107	19890705

OTHER SOURCE(S):

GI

MARFAT 115:29351



AB Title compds. [I; R1, R2 = H, alkyl; R1R2 = alkylene; R3, R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aralkyl, heteroarylalkyl; X = H, halo; Y, Z = O, S; A = O, CH2, NR4, R1R2C; B = bond, CH2, MeCH, Me2C] were prepared as herbicides and plant growth regulators (no data). Thus, a mixture of isopropylidenedioxosuccinic anhydride and 5-amino-6-fluoro-2,3-dihydro-2-oxo-3-propargyl-1,3-benzothiazoline was heated at 135° for 5 h in HOAc to give 66.7% title compound II. II was said to be superior to a comparison compound against Galium and Polygonum.

IT 126007-07-6# 126007-08-7#

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide and plant growth regulator)

RN 126007-07-6 CAPLUS

CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-

&lt;03/01/2005&gt;

L4 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

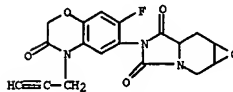
alkenyl, (O; R6 = (modified) carboxylate; A = NH; or AR6 = NCH2; X1, X2 = O, S; m = 0-2) were prepd. as herbicides (no data). Thus, Me 4,5-epoxy-2-piperidinocarboxylate (prepn. given) was stirred with 4-chloro-2-fluoro-5-isopropoxyphenyl isocyanate in PhMe to give title compd. II. I were said to be particularly effective against Abutilon theophrasti, Amaranthus retroflexus, and Solanum nigrum.

IT 145981-39-1#

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

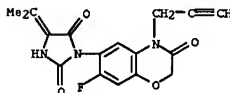
RN 145981-39-1 CAPLUS

CN Imidazo[1,5-a]oxireno[d]pyridine-4,6(2H,5H)-dione, 5-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



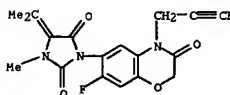
L4 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

1,4-benzoxazin-6-yl]-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



RN 126007-08-7 CAPLUS

CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-1-methyl-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)

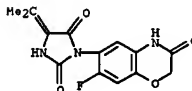


IT 134440-46-3

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, in preparation of herbicide and plant growth regulator)

RN 134440-46-3 CAPLUS

CN 2,4-imidazolidinedione, 3-(7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



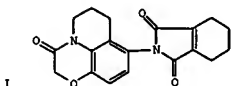
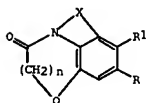
Habe

L4 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:143432 CAPLUS  
 DOCUMENT NUMBER: 114:143432  
 TITLE: Herbicidal benzoxazolinone and benzoxazinone derivatives  
 INVENTOR(S): Ganzer, Michael; Dorfmeister, Gabriele; Franke, Wilfried; Johann, Gerhard; Rees, Richard  
 PATENT ASSIGNEE(S): Schering A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 35 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 406993	A2	19910109	EP 1990-250169	19900703
EP 406993	A3	19911227		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DE 3922847	A1	19910117	DE 1989-3922847	19890707
CN 1048545	A	19910116	CN 1989-103169	19900703
DD 296402	A5	19911205	DD 1990-342491	19900704
HU 54163	A2	19910128	HU 1990-4125	19900706
JP 03115286	A2	19910516	JP 1990-177629	19900706
PRIORITY APPLN. INFO.: CASREACT 114:143432; MARPAT 114:143432			DE 1989-3922847	A 19890707

OTHER SOURCE(S):  
 GI



AB Title compds. I [n = 1,2; R = H, F, Cl; R1 = cyclic imido, thioimido, thiazabicycloalkylideneamino; X = (CH2)3, CH:CHCH2, CH2CH:CH, unsubstituted or substituted by Me or Et] were prepared. Thus, the tetrahydrophthalimide II was obtained in 90% yield by treating the pyridobenzoxazinylamine with tetrahydrophthalic anhydride. II at 0.3 kg/ha post-emergence caused >75% inhibition of several broad-leaf weeds.

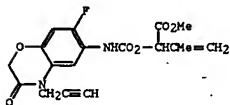
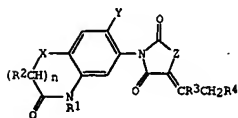
IT 132503-24-3P 132503-25-4P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and herbicidal activity of)

RN 132503-24-3 CAPLUS  
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, tetrahydro-2-(2,3,6,7-tetrahydro-3-oxo-5H-pyrido[1,2,3-de]-1,4-benzoxazin-8-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:158260 CAPLUS  
 DOCUMENT NUMBER: 112:158260  
 TITLE: Preparation of benzoxazinylloxazolidinedione analogs as herbicides  
 INVENTOR(S): Takahashi, Junya; Enomoto, Masayuki; Haga, Toru; Sakaki, Masaharu; Sato, Ryo  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 65 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

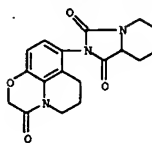
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 338533	A2	19891025	EP 1989-107028	19890419
EP 338533	A3	19920408		
EP 338533	B1	19941109		
R: CH, DE, FR, GB, LI				
US 5322835	A	19940621	US 1989-337406	19890413
JP 02288878	A2	19901128	JP 1989-95892	19890414
RU 2010525	C1	19940415	RU 1990-4830595	19900803
PRIORITY APPLN. INFO.: JP 1988-98590			JP 1988-98590	A 19880420
OTHER SOURCE(S): MARPAT 112:158260			JP 1988-98591	A 19880420
GI			JP 1988-167924	A 19880705
			JP 1989-37855	A 19890216



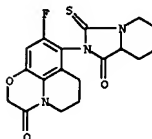
AB The title compds. [I; X = O, S; Y = H, F; Z = O, CH2, (substituted) imino; R1 = H, alkyl, alkenyl, alkynyl, etc.; R2-R4 = H, alkyl; n = 0,1], useful as herbicides, are prepared. Benzoxazinylloxazolidinedione II was refluxed with NaOMe in toluene for 3 h to give I (X = Z = O, Y = F, R1 = CH2C(=O)CH2CH2CH3, R2 = R4 = H, R3 = Me, n = 1 (III)). III at 0 g/are killed 100% Japanese millet, tall morning glory, and velvet leaf. Herbicidal

&lt;03/01/2005&gt;

L4 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 132503-25-4 CAPLUS  
 CN 5H-Pyrido[1,2,3-de]-1,4-benzoxazin-3(2H)-one, 9-fluoro-8-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)

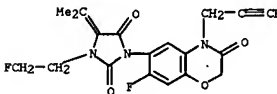


L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

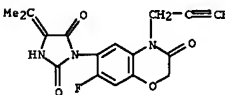
formulations are given.

IT 126006-98-2P 126007-07-6P 126007-08-7P  
 126007-09-8P 126007-10-1P 126007-23-6P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as herbicide)

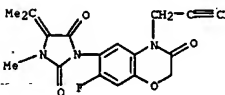
RN 126006-98-2 CAPLUS  
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-1-(2-fluoroethyl)-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



RN 126007-07-6 CAPLUS  
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



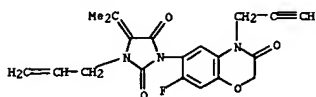
RN 126007-08-7 CAPLUS  
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-1-methyl-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



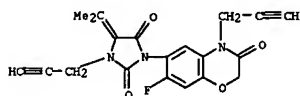
RN 126007-09-8 CAPLUS  
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)-1-(2-propenyl)- (9CI) (CA INDEX NAME)

Habe

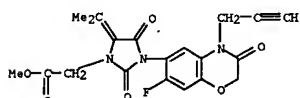
L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 126007-10-1 CAPLUS  
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)-1-(2-propynyl)- (9CI) (CA INDEX NAME)



RN 126007-23-6 CAPLUS  
 CN 1-imidazolidinedioneacetic acid, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)

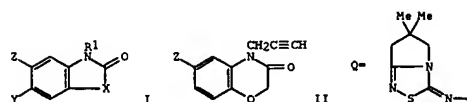


IT 126007-07-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, in preparation of herbicides)  
 RN 126007-07-6 CAPLUS  
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

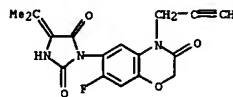
ACCESSION NUMBER: 1989:574127 CAPLUS  
 DOCUMENT NUMBER: 111:174127  
 TITLE: Preparation of heterocyclyloxobenzazoles and -azines as herbicides  
 INVENTOR(S): Ganzer, Michael; Franks, Wilfried; Dorfmeister, Gabrielle; Johann, Gerhard; Arndt, Friedrich; Rees, Richard  
 PATENT ASSIGNEE(S): Schering A.-G., Fed. Rep. Ger.  
 SOURCE: Eur. Pat. Appl., 43 pp.  
 CODEN: EPXKDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 311135	A2	19890412	EP 1988-116762	19881010
EP 311135	A3	19890906		
EP 311135	B1	19930602		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DE 3734745	A1	19890420	DE 1987-3734745	19871009
IL 87887	A1	19930404	IL 1988-87887	19880930
DD 282847	A5	19900926	DD 1988-320543	19881006
SU 1722204	A3	19920323	SU 1988-4356592	19881006
DK 8805634	A	19890410	DK 1988-5634	19881007
FI 8804625	A	19890410	FI 1988-4625	19881007
FI 92585	B	19940831		
FI 92585	C	19941212		
AU 8823568	A1	19890413	AU 1988-23568	19881007
AU 614775	B2	19910912		
BR 8805182	A	19890523	BR 1988-5182	19881007
JP 01157977	A2	19890621	JP 1988-252230	19881007
JP 2765873	B2	19900618		
ZA 8807559	A	19890628	ZA 1988-7559	19881007
HU 49356	A2	19890928	HU 1988-5224	19881007
HU 207330	B	19930329		
CN 1032479	A	19890426	CN 1988-109124	19881008
AT 90091	E	19930615	AT 1988-116762	19881010
ES 2058206	T3	19941101	ES 1988-116762	19881010
PRIORITY APPLN. INFO.:			DE 1987-3734745	A 19871009
OTHER SOURCE(S):			EP 1988-116762	A 19881010
GI			CASREACT 111:174127; MARPAT 111:174127	



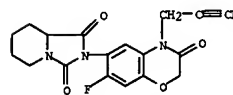
AB The title compds. [I; R1 = H, (un)substituted C1-5 alkyl, C3-5 alkenyl,  
 <03/01/2005>

L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

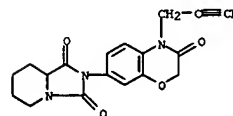


L4 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 etc.; X = (CR2R3)nW, CR2;V in which V and W are bound to Ph-moiety; V = CR1, N; W = CR4R5, NR6, O, S; R2-R5 = H, halo, C1-3 (halo)alkyl; R6 = H, Me, halomethyl; Y = H, F, Cl; Z = 1 specific and 7 general heterocyclyl; n = 0, 1 were prepd. Aminobenzoxazinone II (Z = NH2) was stirred 10 h with Cl2CS in CH2Cl2 contg. CaCO3 to give 84t II (Z = NCS) which was added at 5° to a soln. of 2-amino-4,4-dimethyl-1-pyrroline in CH2Cl2 and the whole stirred 3 h with warming to 20° whereupon the soln. was cooled to -20°, Br added, and stirring continued 1 h with warming to 10° to give 25t II (Z = pyrrolochladiazolylideneimino group O) which gave complete kill of 9 weeds and no effect on wheat at 0.1 kg/ha postemergent.

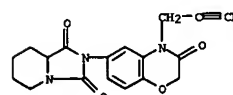
IT 123249-72-9P 123249-73-OP 123249-74-1P  
 123249-75-2P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)  
 RN 123249-72-9 CAPLUS  
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



RN 123249-73-0 CAPLUS  
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-7-yl]tetrahydro- (9CI) (CA INDEX NAME)

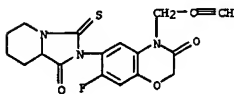


RN 123249-74-1 CAPLUS  
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



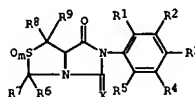
Habte

L4 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RN 123249-75-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(2-propynyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1989:153798 CAPLUS  
 DOCUMENT NUMBER: 111:153798  
 TITLE: Preparation of condensed (thio)hydantoin as herbicides  
 INVENTOR(S): Lindel, Hans; Santel, Hans Joachim; Schmidt, Robert R.; Strang, Harry  
 PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.  
 SOURCE: Eur. Pat. Appl., 42 pp.  
 CODEN: EPXKDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 290902	A2	19881117	EP 1988-107009	19880502
R: BE, CH, DE, FR, GB, IT, LI, NL				
DE 3740256	A1	19881208	DE 1987-3740256	19871127
AU 8815854	A1	19881117	AU 1988-15854	19880505
JP 63287782	A2	19881124	JP 1988-112658	19880511
BR 8802324	A	19881213	BR 1988-2324	19880512
DK 8802646	A	19881115	DK 1988-2646	19880513
PRIORITY APPLN. INFO.:			DE 1987-3716108	A 19870514
			DE 1987-3740256	A 19871127
OTHER SOURCE(S):			CASREACT 111:153798; MARPAT 111:153798	
GI				

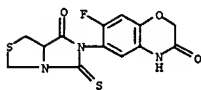


AB The title compds., 1H,3H-imidazo[1,5-c]thiazole-5,7(6H,7aH)-diones and S analogs, [I; R1, R4, R5 = H, halo; R2, R3 = H, halo, NO2, cyano, (un)substituted alkyl(oxy), alkenyl(oxy), alkynyl(oxy), alkylthio, alkylamino, etc.; R2R3 = X1A(CO)nY; R6 = H, (un)substituted Ph, naphthyl; R7-R9 = H, alkyl; A = bond, (chloro)alkylene; X, X1 = O, S; Y = O, S, R10H; R10 = H, (un)substituted alkyl, alkenyl, alkynyl; m = 0-2; n = 0, 1] were prepared as herbicides (no data). A mixture of Et 4-thiazolidinecarboxylate and 4-BrC6H4NCS (general preparation given) were stirred 60 min at 20° in PhMe to give 88% I (R1 = R2 = R4 = R5 = R6-R9 = H, R3 = Br, X = S, m = 0).

IT 120222-53-9P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

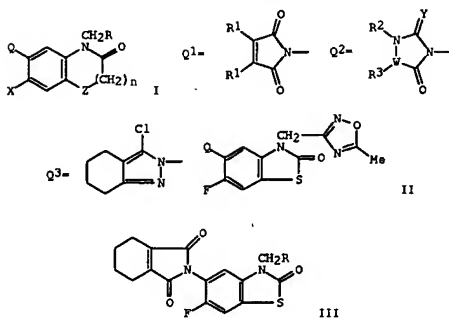
RN 120222-53-9 CAPLUS

L4 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(dihydro-7-oxo-5-thioxo-1H,3H-imidazo[1,5-c]thiazol-6(5H)-yl)-7-fluoro- (9CI) (CA INDEX NAME)



L4 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1989:173245 CAPLUS  
 DOCUMENT NUMBER: 110:173245  
 TITLE: Preparation of N-(heterocyclylmethyl)benzoxazinones and analogs as herbicides  
 INVENTOR(S): Kume, Toyohiko; Goto, Toshio; Kamochi, Atsumi; Yanagi, Akihiko; Yagi, Shigeki; Shibuya, Katsuhiko; Miyauchi, Hiroshi  
 PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K., Japan  
 SOURCE: Eur. Pat. Appl., 87 pp.  
 CODEN: EPXKDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

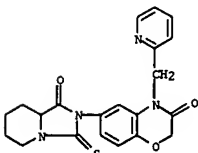
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 296416	A1	19881228	EP 1988-109234	19880610
EP 296416	B1	19920729		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 01075486	A2	19890322	JP 1987-231063	19870917
JP 01102076	A2	19890419	JP 1987-258462	19871015
AU 8816944	A1	19881222	AU 1988-16944	19880601
AU 605304	B2	19910110		
US 4902335	A	19900220	US 1988-209170	19880617
JP 01085977	A2	19890330	JP 1988-151142	19880621
BR 8803045	A	19890110	BR 1988-3045	19880622
JP 01052775	A2	19890228	JP 1988-193640	19880725
US 5077401	A	19911231	US 1989-418001	19891006
PRIORITY APPLN. INFO.:			JP 1987-155093	A 19870622
			JP 1987-231063	A 19870917
			JP 1987-258462	A 19871015
			US 1988-209170	A3 19880617
OTHER SOURCE(S):			MARPAT 110:173245	
GI				



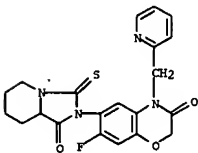
AB The title compds. [I: Q = heterocyclyl groups Q1-Q3, etc.; R = cycloalkyl, (un)substituted heterocyclyl; R1 = Me; (R1)2 = (CH2)4; R2R3 = (CH2)4, CH2CH:CHCH2; W = CH, N; X = H, halo; Y, Z = O, S; n = 0, 1] were prepared 6-fluoro-2(3H)-benzothiazolone was refluxed 5 h with 3-chloromethyl-5-methyl-1,2,4-oxadiazole in MeCN containing K2CO3 to give oxadiazolymethylbenzothiazolone II (Q = H) which was converted in 2 steps to III (Q = NH2). The latter was refluxed 2 h with 3,4,5,6-tetrahydrophthalic anhydride in HOAc to give isocoupledionylbenzothiazolone III (R = 5-methyl-1,2,4-oxadiazol-3-yl). III (R = 2-pyridyl) gave 295% herbicidal control of 4 weeds with no phytotoxicity to rice in culture at 0.06 kg/ha.

IT 120102-66-1P 120102-67-2P 120102-70-7P  
120102-66-5P 120102-67-6P 120102-69-8P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)  
RN 120102-66-1 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-4-(3-isoxazolylmethyl)-3-oxo-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)

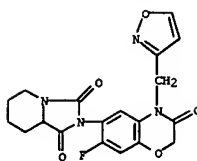
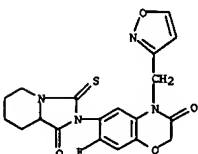
L4 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



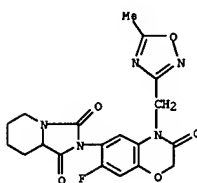
RN 120102-87-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



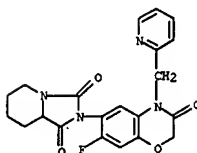
RN 120102-89-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(3-isoxazolylmethyl)- (9CI) (CA INDEX NAME)



RN 120102-67-2 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[(7-fluoro-3,4-dihydro-4-[(5-methyl-1,2,4-oxadiazol-3-yl)methyl]-3-oxo-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)

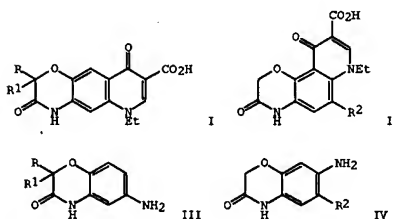


RN 120102-70-7 CAPLUS  
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[(7-fluoro-3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



RN 120102-86-5 CAPLUS

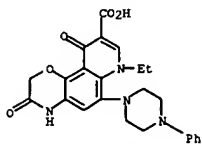
L4 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1989:135165 CAPLUS  
DOCUMENT NUMBER: 110:135165  
TITLE: Synthesis and antibacterial activity of 1,4-oxazinoquinoline carboxylic acids  
AUTHOR(S): Sastry, C. V. Reddy; Rao, K. Srinivas; Rastogi, K.; Jain, M. L.; Reddy, G. S.; Singh, K. V.  
CORPORATE SOURCE: IDPL Res. Cent., Indian Drugs & Pharm. Ltd., Hyderabad, 500 037, India  
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1988), 27B(7), 649-52  
CODEN: IJSBDB; ISSN: 0376-4699  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 110:135165  
GI



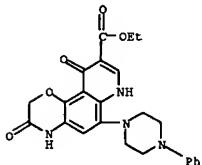
AB A series of 2H[1,4]oxazino[2,3-g]quinoline-8-carboxylic acids I (R = R1 = H, Me; R = H, R1 = Et) and 2H[1,4]oxazino[2,3-f]quinoline-9-carboxylic acids II (R2 = Cl, PhS, 4-phenylpiperazino, morpholino) were prepared from benzoxazines III and IV, resp. and EtOCH:CO2Et)2 in 4 steps. I, II, and their Et esters were screened for their antibacterial activity in vitro against a variety of gram pos. and gram neg. bacteria. I (R = R1 = H) shows promising antibacterial activity in vitro superior to that of salicylic acid.

IT 119453-69-9P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and bactericidal activity of)

RN 119453-69-9 CAPLUS  
CN 2H-Pyrido[2,3-h]-1,4-benzoxazine-9-carboxylic acid, 7-ethyl-3-tetrahydro-3,10-dioxo-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



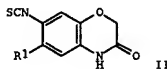
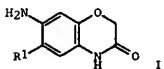
IT 119453-50-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and ethylation of)  
 RN 119453-50-8 CAPLUS  
 CN 2H-Pyrido[2,3-b]-1,4-benzoxazine-9-carboxylic acid, 3,4,7,10-tetrahydro-3,10-dioxo-6-(4-phenyl-1-piperazinyl)-, ethyl ester (9CI) (CA INDEX NAME)



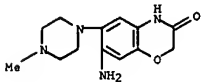
IT 119453-62-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis of)  
 RN 119453-62-2 CAPLUS  
 CN 2H-Pyrido[2,3-b]-1,4-benzoxazine-9-carboxylic acid, 7-ethyl-3,4,7,10-tetrahydro-3,10-dioxo-6-(4-phenyl-1-piperazinyl)-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

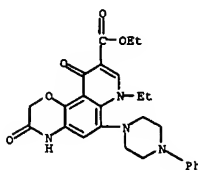
ACCESSION NUMBER: 1988:570339 CAPLUS  
 DOCUMENT NUMBER: 109:170339  
 TITLE: Synthesis and anthelmintic activity of some new 6-(arythio-/arylsulfonyl/substituted amino)-7-isothiocyanato-2H-1,4-benzoxazin-3(4H)-ones  
 AUTHOR(S): Sastry, C. V. Reddy; Rao, K. Srinivas; Rastogi, K.; Jain, M. L.  
 CORPORATE SOURCE: IDPL, Indian Drugs and Pharm. Ltd., Hyderabad, 500 037, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1988), 27B(3), 290-2  
 CODEN: IJSEBD; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 109:170339  
 GI



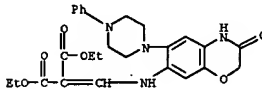
AB Aminobenzoxazinones I (R1 = arylthio, arylsulfonyl, secondary amino) were treated with thiophosgene to give isothiocyanato-substituted compds. II. II are potential anthelmintics. Among the products was II (R1 = 4-methyl-1-piperazinyl).  
 IT 116862-41-0P 116862-42-1P 116862-43-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and condensation reaction of, with thiophosgene)  
 RN 116862-41-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



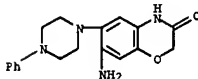
RN 116862-42-1 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



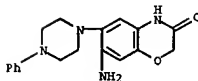
IT 119453-46-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and intramol. cyclization of, oxazinoquinoline derivs. from)  
 RN 119453-46-2 CAPLUS  
 CN Propanedioic acid, [[[3,4-dihydro-3-oxo-6-(4-phenyl-1-piperazinyl)-2H-1,4-benzoxazin-7-yl]amino]methylene]-, diethyl ester (9CI) (CA INDEX NAME)



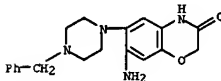
IT 116862-42-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with di-Et ethoxymethylenemalonate)  
 RN 116862-42-1 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



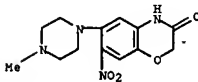
L4 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



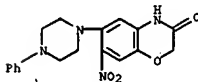
RN 116862-43-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



IT 116862-35-2P 116862-36-3P 116862-37-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reduction of, amino analog from)  
 RN 116862-35-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(4-methyl-1-piperazinyl)-7-nitro- (9CI) (CA INDEX NAME)

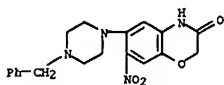


RN 116862-36-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-nitro-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

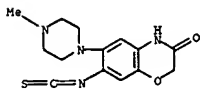


RN 116862-37-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-nitro-6-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

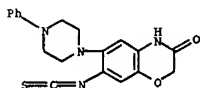
L4 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



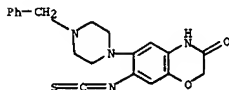
IT 116862-53-4P 116862-54-5P 116862-55-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as anthelmintic)  
 RN 116862-53-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-isothiocyanato-6-(4-methyl-1-piperazinyl)-  
 (9CI) (CA INDEX NAME)



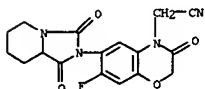
RN 116862-54-5 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-isothiocyanato-6-(4-phenyl-1-piperazinyl)-  
 (9CI) (CA INDEX NAME)



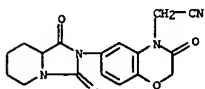
RN 116862-55-6 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-isothiocyanato-6-(4-(phenylmethyl)-1-piperazinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of, as herbicide)  
 RN 115614-83-0 CAPLUS  
 CN 4H-1,4-Benzoxazine-4-acetonitrile, 7-fluoro-6-(hexahydro-1,3-dioxoimidazo[1,5-a]pyridin-2(3H)-yl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



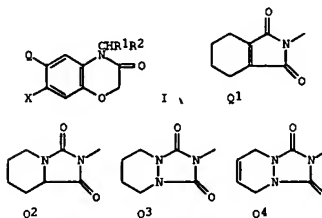
RN 115614-88-5 CAPLUS  
 CN 4H-1,4-Benzoxazine-4-acetonitrile, 6-(hexahydro-1,3-dioxoimidazo[1,5-a]pyridin-2(3H)-yl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1988:473459 CAPLUS  
 DOCUMENT NUMBER: 109:73459  
 TITLE: Preparation and testing of indolobenzoxazinone derivatives as herbicides  
 INVENTOR(S): Kume, Toyohiko; Goto, Toshio; Kamochi, Atsumi; Yamaguchi, Naoko; Yanagi, Akihiko; Hayakawa, Hidenori; Yagi, Shigeki; Miyauchi, Hiroshi  
 PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K., Japan  
 SOURCE: Eur. Pat. Appl., 32 pp.  
 CODEN: EPXKXW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 263299	A	19880413	EP 1987-112651	19870831
EP 263299	B1	19901107		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 63068587	A2	19880328	JP 1986-210725	19860909
JP 63196582	A2	19880815	JP 1987-27194	19870210
PRIORITY APPLN. INFO.:			JP 1986-210725	A 19860909
			JP 1987-27194	A 19870210

OTHER SOURCE(S): MARPAT 109:73459  
 GI



AB The title compds. (I: R1 = H, Me, Et; R2 = CN, Me3Si, Me3SiCH2O2C, C1-4 alkylthio, cyclopropyl; X = H, halo; Q = Q1-Q4) were prepared as herbicides. 2-[7-Fluoro-2H-1,4-benzoxazin-3(4H)-on-6-yl]-4,5,6,7-tetrahydro-2H-isoindol-1,3-dione was refluxed 30 min with K2CO3 in MeCN. The solution was cooled to 5°, ClCH2CN was added and the mixture was refluxed 3 h to give I (R1 = H, R2 = CN, Q = Q1, X = F). Several I at 0.06 kg/ha gave complete control of Echinochloa oryzicola, Cyperus difformis, and Monochoria vaginalis while leaving rice unaffected.

IT 115614-83-0P 115614-88-5P

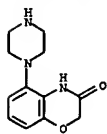
L4 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1987:5080 CAPLUS  
 DOCUMENT NUMBER: 106:5080  
 TITLE: Preparation of piperazines as psychotropics  
 PATENT ASSIGNEE(S): Duphar International Research B. V., Neth.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JXKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61152655	A2	19860711	JP 1985-285841	19851220
EP 189612	A1	19860806	EP 1985-202085	19851216
EP 189612	B1	19921104		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 81975	E	19921115	AT 1985-202085	19851216
DK 8505860	A	19860622	DK 1985-5860	19851217
AU 8551391	A1	19860626	AU 1985-51391	19851218
AU 588015	B2	19890907		
ZA 8509663	A	19860827	ZA 1985-9663	19851218
ES 550104	A1	19861216	ES 1985-550104	19851218
CA 1271475	A1	19900710	CA 1985-497977	19851218
IL 77395	A1	19910816	IL 1985-77395	19851219
US 5424313	A	19950613	US 1993-135189	19931012
PRIORITY APPLN. INFO.:			NL 1984-3917	A 19841221
			EP 1985-202085	A 19851216
			US 1985-810094	B1 19851218
			US 1988-161240	B1 19880218
			US 1988-268886	B1 19881108
			US 1990-471694	B1 19900126
			US 1990-593280	B1 19901005
			US 1991-802715	B1 19911206
			US 1993-3683	B1 19930113

GI For diagram(s), see printed CA Issue.

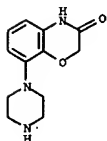
AB The title compds. (I: R1 = alkyl, cycloalkyl, alkoxyalkyl, etc.; p = 0-3; R2 = alkyl; n and q = 0 or 1; R3 = alkylidene, oxo, thioxo, etc.; m = 0-2; A = 5-7 member ring containing 1-3 O, S, or N), useful as psychotropics, are prepared. Thus, 1-[5-(1,4-benzodioxanyl)]piperazine-HCl was prepared by treating 5-amino-1,4-benzodioxane with bis(2-chloroethyl)amine-HCl. No pharmacol. activities are described.

IT 105684-84-2P 105684-87-5P 105685-33-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as psychotropic)  
 RN 105684-84-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 5-(1-piperazinyl)-, monohydrochloride (9CI)  
 (CA INDEX NAME)



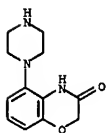
● HCl

RN 105684-87-5 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)-, monohydrochloride (9CI)  
 (CA INDEX NAME)

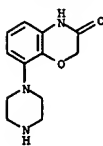


● HCl

RN 105685-33-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 5-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 105685-36-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



①

11  
 ring nodes :  
 1 2 3 4 5 6 7 8 9 10 12 13 14 15 16  
 chain bonds :  
 9-11  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-16 13-14 14-15  
 15-16  
 exact/norm bonds :  
 5-7 6-10 7-8 8-9 9-10 9-11 12-13 12-16 13-14 14-15 15-16  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

Match level :

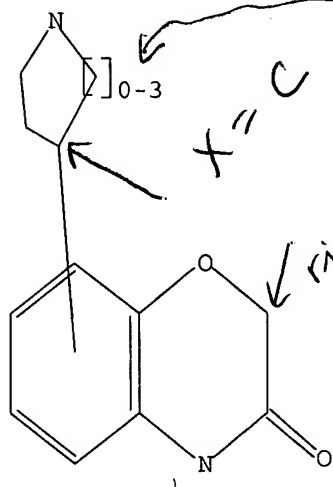
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 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 19:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



$R = 1-3$   
 not searched  
 0-3

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 16:07:15 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 1713 TO ITERATE

58.4% PROCESSED 1000 ITERATIONS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.01

4 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 31778 TO 36742

<03/01/2005>

Habte

PROJECTED ANSWERS: 4 TO 294

L2 4 SEA SSS SAM L1

=> s l1 sss full  
FULL SEARCH INITIATED 16:07:26 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 34893 TO ITERATE

100.0% PROCESSED 34893 ITERATIONS 78 ANSWERS  
SEARCH TIME: 00.00.01

L3 78 SEA SSS FUL L1

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 16:07:31 ON 01 MAR 2005  
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FILE COVERS 1907 - 1 Mar 2005 VOL 142 ISS 10  
FILE LAST UPDATED: 28 Feb 2005 (20050228/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 2 L3

=&gt; d ibib abs hitstr tot

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:414636 CAPLUS

DOCUMENT NUMBER: 140:423696

TITLE: Preparation of phenylaminopyrimidines useful as

inhibitors of JAK and other protein kinases

INVENTOR(S): Bethiel, Randy S.; Ludeboer, Mark

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 59 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

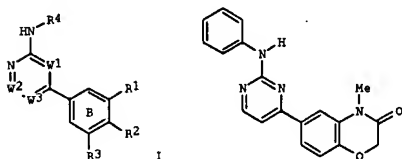
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004097504	A1	20040520	US 2003-700936	20031104
WO 2004041814	A1	20040521	WO 2003-US35163	20031104

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

RW: BV, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, HL, HR, NE, NI, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

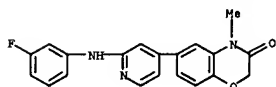
PRIORITY APPL. INFO.: MHPAT 140:423696 US 2002-423579P F 20021104

OTHER SOURCE(S): GI

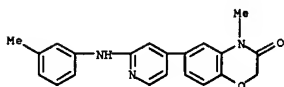


AB The title compds. [I; W1 = N, CH; W2 = N, C(U)PRU; W3 = N, C(V)QRV; p, q = 0-1; RU, RV = R, Ar1; U, V = a bond, alkylidene, etc.; R = H, alkyl, etc.; Ar1 = 5-7 membered (un)saturated monocyclic ring having 0-3 heteroatoms, 8-12 membered (un)saturated bicyclic ring having 0-5 heteroatoms; R1 and R2 together and fused to ring B form a cyclic moiety selected from benzoxazine, quinoxaline, etc.; R3 = halo, OR, QNOR, QNOR1; R4 =

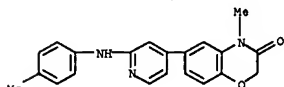
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



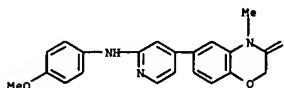
RN 692246-55-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-methyl-6-[2-[(3-methylphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 692246-57-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-methyl-6-[2-[(4-methylphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 692246-59-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(4-methoxyphenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)



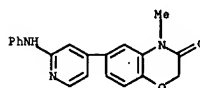
RN 692246-61-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
Ar1, Ar2, Ar3 = alkylidene chain wherein one methylene unit of T is optionally replaced by CO, CO2, COCO, etc.; Q = alkylidene chain wherein one methylene unit of Q is optionally replaced by CO, CO2, COCO, etc.; n = 0-1, useful in the treatment of various protein kinase mediated disorders, were prepd. The general procedures for prepn. of the compds. I were described. The compds. I such as II showed Ki's of <1.0 μM in the JAK3 inhibition assay, and Ki's of <1.0 μM in the JNK3 inhibition assay. The pharmaceutical compn. comprising the compd. I is claimed.

IT 692246-51-8P 692246-53-0P 692246-55-2P  
692246-57-4P 692246-59-6P 692246-61-0P  
692246-63-2P 692246-65-4P 692246-67-6P  
692246-69-8P 692246-71-2P 692246-73-4P  
692246-75-6P 692246-77-8P 692246-79-0P  
692246-81-4P 692246-83-6P 692246-84-7P  
692246-86-9P 692246-88-1P 692246-90-3P  
692246-92-7P 692246-94-9P 692246-96-1P  
692246-98-3P 692247-00-0P 692247-02-2P  
692247-04-4P 692247-06-6P 692247-08-8P  
692247-10-2P 692247-12-4P 692247-13-5P  
692247-14-6P 692247-15-7P 692247-16-8P  
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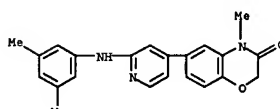
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of phenylaminopyrimidines useful as inhibitors of JAK and other protein kinases)  
RN 692246-51-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-methyl-6-[2-(phenylamino)-4-pyridinyl]- (9CI) (CA INDEX NAME)

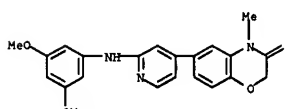


RN 692246-53-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

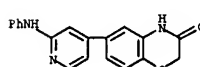
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



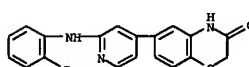
RN 692246-63-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethoxyphenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 692246-65-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-(phenylamino)-4-pyridinyl]- (9CI) (CA INDEX NAME)

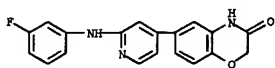


RN 692246-67-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(2-fluorophenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)

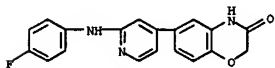


RN 692246-69-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)

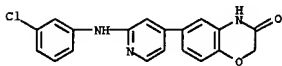
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



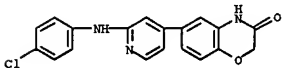
RN 692246-71-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(4-fluorophenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



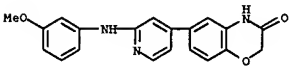
RN 692246-73-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-chlorophenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



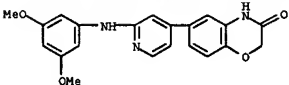
RN 692246-75-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(4-chlorophenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



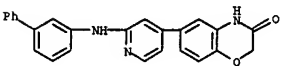
RN 692246-77-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



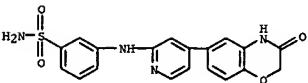
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



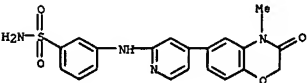
RN 692246-88-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(1,1'-biphenyl)-3-ylamino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



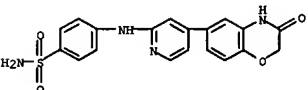
RN 692246-90-5 CAPLUS  
CN Benzenesulfonamide, 3-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



RN 692246-92-7 CAPLUS  
CN Benzenesulfonamide, 3-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



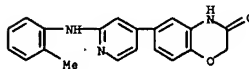
RN 692246-94-9 CAPLUS  
CN Benzenesulfonamide, 4-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



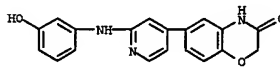
&lt;03/01/2005&gt;

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

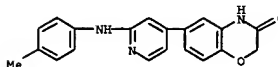
RN 692246-79-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(2-methylphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



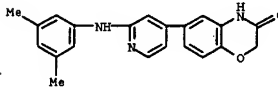
RN 692246-81-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 692246-83-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(4-methylphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



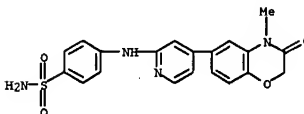
RN 692246-84-7 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



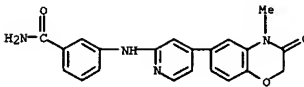
RN 692246-86-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethoxyphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

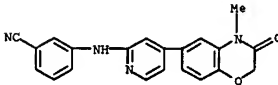
RN 692246-96-1 CAPLUS  
CN Benzenesulfonamide, 4-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



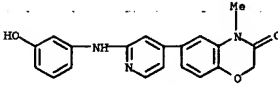
RN 692246-98-3 CAPLUS  
CN Benzenesulfonamide, 3-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



RN 692247-00-0 CAPLUS  
CN Benzonitrile, 3-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)

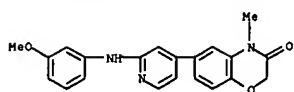


RN 692247-02-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

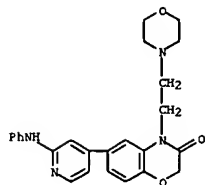


RN 692247-04-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

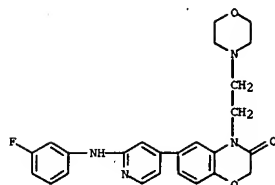
Habte



RN 692247-06-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[2-(4-morpholinyl)ethyl]-6-[2-(phenylamino)-4-pyridinyl]- (9CI) (CA INDEX NAME)

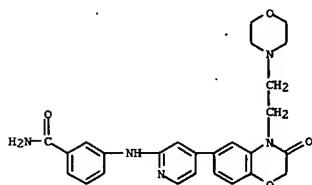


RN 692247-08-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

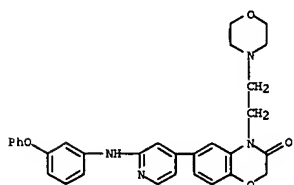


RN 692247-10-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-chlorophenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

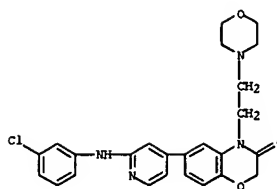
RN 692247-14-6 CAPLUS  
CN Benamide, 3-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



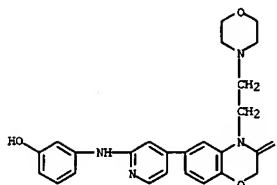
RN 692247-15-7 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[2-(4-morpholinyl)ethyl]-6-[2-[(3-phenoxyphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



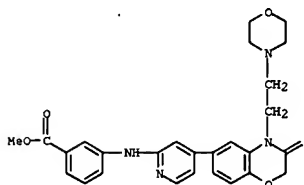
RN 692247-16-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



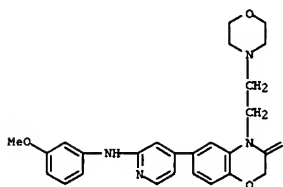
RN 692247-12-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



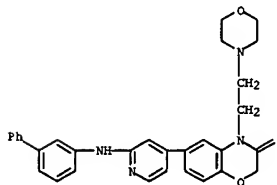
RN 692247-13-5 CAPLUS  
CN Benzoic acid, 3-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



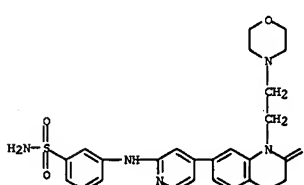
RN 692247-17-9 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[[1,1'-biphenyl]-3-ylamino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



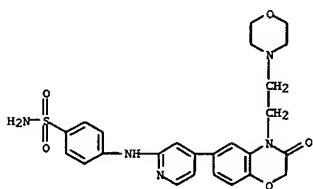
RN 692247-18-0 CAPLUS  
CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



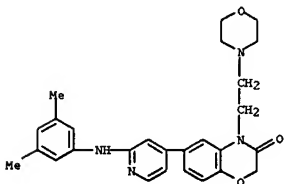
RN 692247-19-1 CAPLUS  
CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



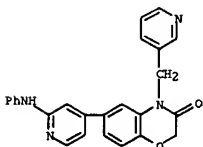
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



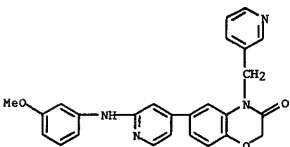
RN 692247-20-4 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



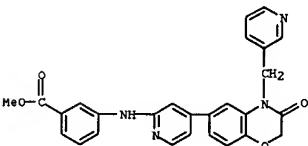
RN 692247-21-5 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-(phenylamino)-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



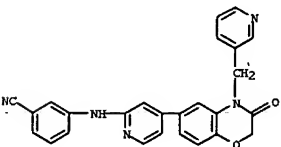
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 692247-26-0 CAPLUS  
 CN Benzoic acid, 3-[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

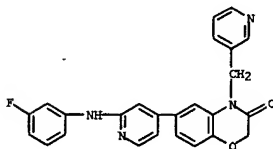


RN 692247-27-1 CAPLUS  
 CN Benzonitrile, 3-[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)

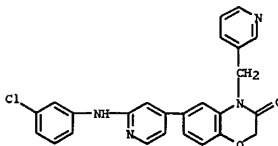


RN 692247-28-2 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[[1,1'-biphenyl]-3-ylamino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

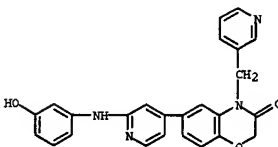
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 RN 692247-22-6 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 692247-23-7 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-chlorophenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

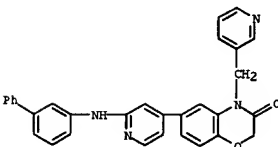


RN 692247-24-8 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

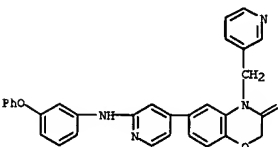


RN 692247-25-9 CAPLUS

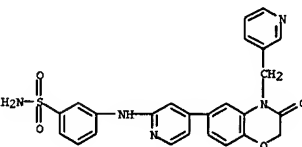
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



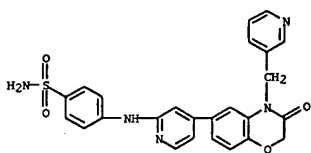
RN 692247-29-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-phenoxypheyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



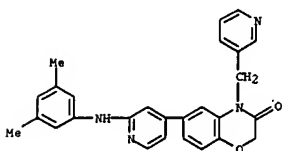
RN 692247-30-6 CAPLUS  
 CN Benzenesulfonamide, 3-[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



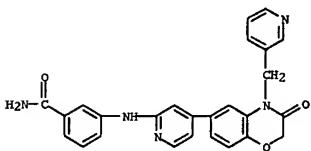
RN 692247-31-7 CAPLUS  
 CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



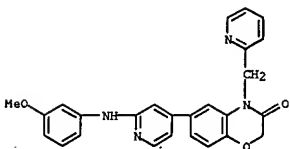
RN 692247-32-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



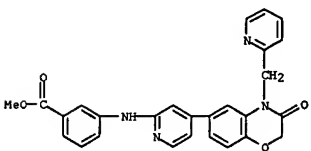
RN 692247-33-9 CAPLUS  
CN Benzamide, 3-[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



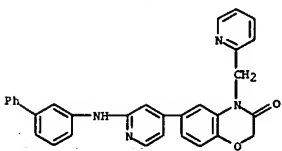
RN 692247-34-0 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-(phenylamino)-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



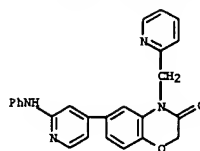
RN 692247-38-4 CAPLUS  
CN Benzoic acid, 3-[[4-[3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



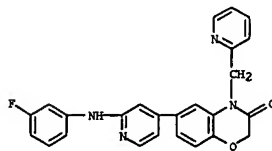
RN 692247-39-5 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(1,1'-biphenyl)-3-ylamino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



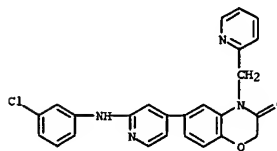
RN 692247-40-8 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-phenoxyphenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



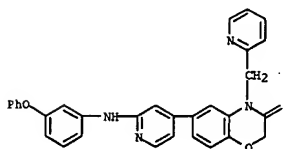
RN 692247-35-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



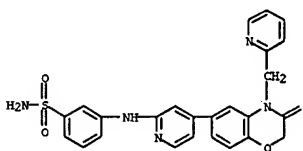
RN 692247-36-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-chlorophenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



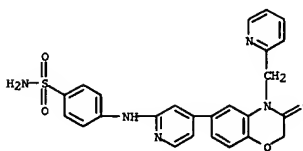
RN 692247-37-3 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



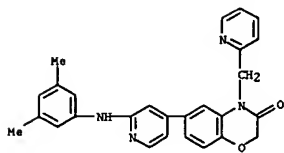
RN 692247-41-9 CAPLUS  
CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



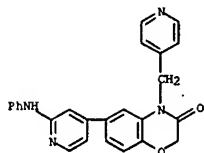
RN 692247-42-0 CAPLUS  
CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



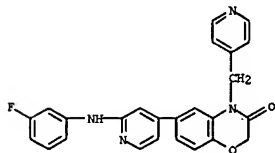
RN 692247-43-1 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



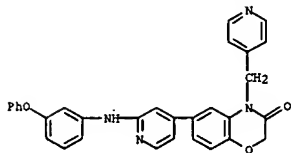
RN 692247-44-2 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((phenylamino)-4-pyridinyl)-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



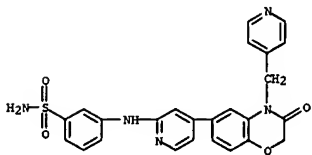
RN 692247-45-3 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-fluorophenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



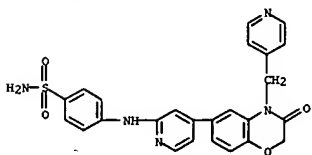
RN 692247-46-4 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-chlorophenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



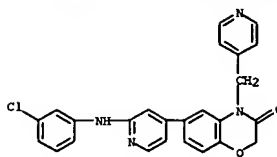
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CN Benzenesulfonamide, 3-[[4-[3,4-dihydro-3-oxo-4-(4-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



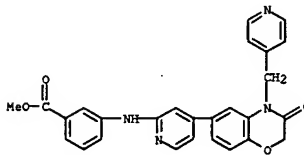
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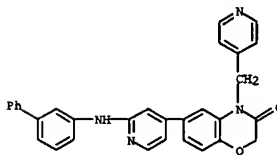
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CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3,5-dimethylphenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



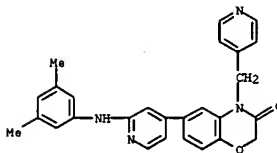
RN 692247-47-5 CAPLUS  
CN Benzoic acid, 3-[[4-[3,4-dihydro-3-oxo-4-(4-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



RN 692247-48-6 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((1,1'-biphenyl)-3-ylamino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 692247-49-7 CAPLUS  
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-phenoxyphenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

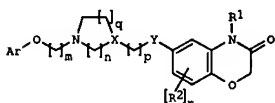


L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2002:332196 CAPLUS  
 DOCUMENT NUMBER: 136:355241  
 TITLE: Preparation of benzoxazinones as antidepressants and anxiolytics  
 INVENTOR(S): Johnson, Christopher Norbert; Rami, Harshad Kantilal; Stemp, Geoffrey; Thewlis, Kevin; Thompson, Mervyn; Vong, Antonio Kuok Keong  
 PATENT ASSIGNEE(S): Smithkline Beecham P.L.C., UK  
 SOURCE: PCT Int. Appl., 97 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

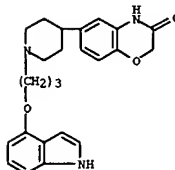
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WO 2002034754	A2	20020502	WO 2001-EP12344	20011022
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 EP 1330460 A2 20030730 EP 2001-988720 20011022  
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 BR 2001014881 A 20030930 BR 2001-14881 20011022  
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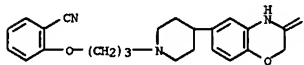
OTHER SOURCE(S): MARPAT 136:355241  
 GI



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 AB The title comps. [1: Ar = (un)substituted Ph, naphthyl, a monocyclic heteroarom. group; when Ar = Ph or a monocyclic heteroarom. group, substituents positioned ortho to one another may be linked to form a 5-6 membered ring; R<sup>1</sup> = H, alkyl, alkenyl, alkynyl, arylalkyl; R<sup>2</sup> = halo, alkyl, CN, CF<sub>3</sub>, alkanoyl, alkoxy, OH; X = CH, N; Y = a single bond, O, CO; p = 0-2; r = 0-3; m = 2-4; n, q = 1-2], useful as medicaments for various CNS disorders, including depression and/or anxiety, were prepared Thus, reacting 6-(4-piperidinyl)oxy-4H-benzo[1,4]oxazin-3-one.HCl with 4-H-indolylalkoxyacetaldehyde in the presence of NaBH(OAc)<sub>3</sub> in 1,2-dichloroethane afforded 63t 1 (Ar = 4-indolyl; R<sup>1</sup> = H; X = CH; Y = O; p = 0; q = 1; n, m = 2; r = 0]. All comps. I tested according to the radioligand binding assay were found to have pK<sub>i</sub> values > 6.0 at 5-HT<sub>1A</sub> receptors.  
 IT 420785-52-0P 420785-53-1P 420785-54-2P  
 420785-55-3P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of benzoxazinones as antidepressants and anxiolytics)  
 RN 420785-52-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1-[3-(1H-indol-4-yloxy)propyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

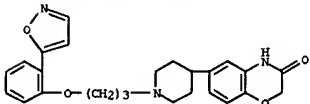


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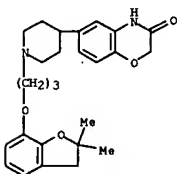


RN 420785-54-2 CAPLUS  
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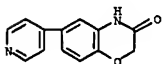
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 420785-55-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1-[3-[(2,3-dihydro-2,2-dimethyl-7-benzofuran)oxy]propyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



IT 420786-59-0P, 6-(4-Pyridyl)-4H-benzo[1,4]oxazin-3-one  
 420786-60-3P, 6-(4-Piperidinyl)-4H-benzo[1,4]oxazin-3-one  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of benzoxazinones as antidepressants and anxiolytics)  
 RN 420786-59-0 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 420786-60-3 CAPLUS  
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(4-piperidinyl)- (9CI) (CA INDEX NAME)

